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DEPARTMENT OF THE ARMY

Procurement Programs



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Committee Staff Procurement Backup Book

FY 1996 / 1997 BIENNIAL BUDGET ESTIMATE

OTHER PROCUREMENT, ARMY

ACTIVITY 2, COMMUNICATIONS & ELECTRONICS EQUIPMENT

APPROPRIATION

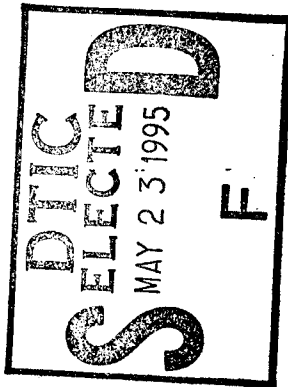
Date February 1995

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REPORT DOCUMENTATION PAGE

OMB No. 0704-0188

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*****UNCLASSIFIED*****
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET *

EXHIBIT P-1
DATE: 135415 31 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)									
			FY 96		FY 94		FY 95		FY 96		FY 97	
			UNIT COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
COMM - JOINT COMMUNICATIONS												
20	JCSE EQUIPMENT (USREDCOM) (BB5777)				1008		1812		2271		2475	
	SUB-ACTIVITY TOTAL				1008		1812		2271		2475	
COMM - SATELLITE COMMUNICATIONS												
21	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)				77568		103786		78232		99864	
22	SAT TERM, EMUT (K77200)		28313	275	9580	500	14951	618	17498	473	13380	
23	NAVSTAR GLOBAL POSITIONING SYSTEM (K47800)	B	2163	14318	32395	14517	32104	15025	32502	14026	31543	
24	GROUND COMMAND POST (BC4001)					5905			1049		1000	
25	SMART-T (BC4002)								66714		59425	
26	SCAMP (BC4003)								25816		32474	
27	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)				19773		6329		4166		5662	
	SUB-ACTIVITY TOTAL				139316		163075		225977		243348	
COMM - COMBAT SUPPORT COMM												
28	MSE MOD IN SERVICE (BB1611)						33255		14683		18687	
	SUB-ACTIVITY TOTAL						33255		14683		18687	
COMM - C3 SYSTEM												
29	COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)				3638		3638		920		928	
30	SOUTHCOM C3 UPGRADE (BU4000)								11424		4967	
31	STD THEATER CMD & CONTROL SYS (STACCS) (BA8250)	A			5244		12008		14526		15183	

Accession For	NTIS	CRA&I
	DTIC	TAB
	Unannounced Justification	
By	Distribution /	
Availability		
Dist	Avail a	Spec
A-1		

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DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1
DATE: 135415 31 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLLS)								
			FY 96 UNIT COST		FY 94		FY 95		FY 96		FY 97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	SUB-ACTIVITY TOTAL				8882		15646		26870		21078
	COMM - COMBAT COMMUNICATIONS										
32	ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)	B			36978		9490		19968		10331
33	MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)	A			42787				3477		6655
34	SINGARS FAMILY (BH0006)	A			352133		364750		310620		208431
35	SW ASIA COMM INFRASTRUCTURE (BZ8250)				1485						
36	EAC COMMUNICATIONS (BA1010)	A			50229		49510		5896		4253
37	MOD OF IN-SVC EQUIP (EAC COMM) (BB1600)	A			11297		11690		11637		10444
38	TAC RADIO (BA1205)							700	24803	1400	32885
39	C-E CONTINGENCY/FIELDING EQUIP (BAS210)				12325		8470		5108		2613
	SUB-ACTIVITY TOTAL				507234		443910		381509		275612
	COMM - INFORMATION SECURITY										
40	TSEC - INFORMATION SYSTEM SECURITY (TA0600)	A			56880		12989		11105		11119
41	TSEC - JCSE EQUIP (TA0200)						527				
	SUB-ACTIVITY TOTAL				56880		13516		11105		11119
	COMM - LONG HAUL COMMUNICATIONS										
42	TERRESTRIAL TRANSMISSION (BU1900)						893		9596		1302
43	BASE SUPPORT COMMUNICATIONS (BU4160)						610		2205		1113
44	DEFENSE DATA NETWORK (DDN) (BU0300)				2961		2723		4927		2160

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APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			FY 96 UNIT COST		FY 94		FY 95		FY 96		FY 97
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
45	ELECTROMAG COMP PROG (EMCP) (BD3100)				256		875		498		492
46	MM TECH CON IMP PROG (MATCIP) (BU3610)				183		199		4811		839
	SUB-ACTIVITY TOTAL				3400		5300		22037		5906
	COMM - BASE COMMUNICATIONS										
47	INFORMATION SYSTEMS (BB8650)				32723		22339		64142		24907
48	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				5160		16350		7963		6024
49	LOCAL AREA NETWORK (LAN) (BU4165)				17467		22492		61547		18437
50	PENTAGON TELECOM CTR (PTC) (BQ0100)				3470		3096		2741		19631
	SUB-ACTIVITY TOTAL				58820		64277		136393		68999
	ELECT EQUIP - NAT FOR INT PROG (NFIP)										
51	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				287		210		536		536
52	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				33591		31097		29409		21887
53	ITEMS LESS THAN \$2.0M (INTEL SPT) - TIARA (BL5278)				3587		1366		2826		2237
	SUB-ACTIVITY TOTAL				37455		32673		32771		24660
	ELECT EQUIP - TACT INT REL ACT (TIARA)										
54	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)	B			33933		23410		9886		7891
55	COMMANDERS TACTICAL TERM (CTT) (TIARA) (V29600)	B	342848	2	6497	17	11644	33	11314	58	14572
56	HF COMINT SYSTEM (TIARA) (V18200)	B		1	21817						

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DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1
DATE: 135415 31 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) UNIT COST						(THOUSANDS OF DOLLARS)					
			FY 96	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00				
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
57	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	B					58405		46937			46581		
58	DEFENSE AIRBORNE RECONN PROGRAM (DARP) (BA0329)			1927			2411							
59	JOINT STARS (ARMY) (TIARA) (BA1080)	B		57796			55239		82984			89855		
60	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)	B	1390800	10412		14	7779	5	6954	3		6683		
61	DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050)			10618										
62	TACTICAL EXPLOITATION OF NATIONAL CAPABILI (BZ7315)			7729			4636		4617			1829		
63	JOINT TACTICAL GROUND STATION (BZ8410)	B							30914					
64	TROJAN (TIARA) (BA0326)	B		11602			22159		19313			3707		
65	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)			15824			15185		19491			16831		
66	ITEMS LESS THAN \$2.0M (TIARA) (BK5278)								517			537		
	SUB-ACTIVITY TOTAL			178155			200868		232927			188486		
	ELECT EQUIP - ELECTRONIC WARFARE (EW)													
67	MOD OF IN-SVC EQUIP (EW) (BZ7327)			8007										
68	COUNTERINTELLIGENCE/SECURITY COUNTERMEASUR (BL5283)			2367			1763		2582			1708		
	SUB-ACTIVITY TOTAL			10374			1763		2582			1708		
	ELECT EQUIP - TACTICAL SURV. (TAC SURV)													
69	LT SPEC DIV INTERIM SENSOR (LSDIS) (AD4500)			1914			1875							

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APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

		(THOUSANDS OF DOLLARS)									
LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 96 UNIT COST	FY 94		FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
70	FAAD GBS (W45053)				7900		63855	8	44678	15	53282
71	NIGHT VISION DEVICES (KA3500)	A			87926		80034		77132		81750
72	PHYSICAL SECURITY SYSTEMS (BZ7800)				11126		10149				
73	ARTILLERY ACCURACY EQUIP (AD3200)				12667		9386		12364		4842
74	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	B			35738		4570		26860		15720
75	LIGHTWEIGHT LEADER COMPUTER (LLC) (W63800)	A									6840
76	COMPUTER BALLISTICS: MORTAR XM-23 (K99200)	A							5019		4125
77	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (B40021)		585750		3792	12	6954	12	7029	6	3270
	SUB-ACTIVITY TOTAL				161063		176823		173082		169829
ELECT EQUIP - TACTICAL C2 SYSTEMS											
78	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)	B	139805	146	4400	116	8141	221	30897	222	34875
79	FIRE SUPPORT ADA CONVERSION (B78400)	A		300	18017	289	11529				
80	INITIAL FIRE SPT AUTOMATIC SYSTEM (IFSAS) (B78100)	A		21	21387						
81	CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)		203965			42	5977	29	5915	35	6046
82	CORPS/THEATER ADP SVC CTR (CTASC) (BZ9350)	B			1768		1992				
83	FAAD C2 (A05050)	A	6588400		13300	1	14150	5	32942	5	38236
84	FORWARD ENTRY DEVICE (FED) (BZ9851)	B			21853		99				

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DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET *

EXHIBIT P-1
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ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			FY 96		FY 95		FY 96		FY 97		
			UNIT	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
85	COMMON HARDWARE SOFTWARE (BZ9860)	A			18000						
86	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				1810		1685		2096		2111
87	LOGTECH (BZ8889)	B			3500		4636		4534		4571
88	ISYSCON EQUIPMENT (BX0007)				58				13178		10228
89	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	A						152	13808	165	15893
90	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	A			31622		21693	1830	23465	1861	24003
91	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)						9531		28914		27360
	SUB-ACTIVITY TOTAL				135715		79433		155749		163323
	ELECT EQUIP - AUTOMATION										
92	AUTOMATED DATA PROCESSING EQUIP (BD3000)				46819		83378		132751		122283
93	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				184627		163482		83174		25421
	SUB-ACTIVITY TOTAL				231446		246860		215925		147704
	ELECT EQUIP - AUDIO VISUAL SYSTEMS (A/V)										
94	AFRTS (BZ8480)				3369		2972		2586		373
95	ITEMS LESS THAN \$2.0M (A/V) (BK5289)				6020		3822		5102		2850
	SUB-ACTIVITY TOTAL				9389		6794		7688		3223

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APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 2. COMMUNICATIONS AND ELECTRONICS
EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	ELECT EQUIP - TEST MEAS&DIAG EQUIP (TMDE)										
96	CALIBRATION SETS EQUIPMENT (BZ5269)	A			14682		10275		11457		11550
97	INTEGRATED FAMILY OF TEST EQUIP (IFTE) (KA4000)	B			57835		62267		26449		20067
98	TMDE MODERNIZATION (TMOD) (BZ5270)	A			15276		11108		9470		8570
	SUB-ACTIVITY TOTAL				87793		83650		47376		40187
	ELECT EQUIP - SUPPORT										
99	INITIAL SPARES - PEO CCS (BA9101)				10968						
100	INITIAL SPARES - PEO COMM (BA9102)				27955						
101	INITIAL SPARES - PEO IEW (BA9103)				19095						
102	INITIAL SPARES - PEO STAMIS (BA9104)				651						
103	INITIAL SPARES - NON PEO (BA9106)				13592						
104	ARMY PRINTING AND BINDING EQUIPMENT (BB7600)	A			4167						
105	INSTALLATION C4 UPGRADE (ICU) (BB1000)				5201		2258		1762		1156
106	PRODUCTION BASE SUPPORT (C-E) (BF5400)				1845		12757		717		715
	SUB-ACTIVITY TOTAL				83474		15015		2479		1871
	ACTIVITY TOTAL				1710414		1584670		1691424		1388215

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Mod In Svc EAC Comm**	5.3	4.6	3.6	9.3	13.2	13.4	27.8	27.8	127.9	232.9
Mod In Svc MSE**	0	26.3	10.5	17.6	13.8	15.8	9.9	16.7	116.2	226.8
DSCS Terminal Modernization	0	3.4	5.4	5.7	5.7	5.7	1.0	0	0	26.9
DSCS Antenna Upgrade	0	0	0	.8	.8	0	0	0	0	1.6
Mod In Svc TACSAT**	19.8	6.3	4.2	5.7	7.4	7.5	12.1	12.1	0	75.1
AN/TPQ-36(V)7	1.0	0	0	0	0	0	0	0	0	1.0
AN/TPQ-36(V)8	0	0	0	.8	0	0	0	0	0	.8
AN/TPQ-37 Enhanced FF Block 1	0	0	.8	0	0	0	0	0	0	.8
AN/TPQ-37 ATG Mobility Improvement	0	0	.3	0	0	0	0	0	0	.3
Trailblazer 5 TON	.3	0	0	0	0	0	0	0	0	.3
Trailblazer DTSR MC	.1	0	0	0	0	0	0	0	0	.1
Trackwolf Threat Update	0	.1	.1	.1	0	0	0	0	0	.3
Teammate/Quickdir Interop MC**	0	0	0	0	0	0	0	0	0	0
Teammate TPT MC	0	.1	.2	0	0	0	0	0	0	.3
SINGARS MC	0	0	.3	.5	0	0	0	0	0	.8
Host Interface Unit**	0	0	0	0	0	0	0	0	0	0
Trojan Spirit Conf Upgrade	1.9	1.7	0	0	0	0	0	0	0	3.6
TOTAL FOR BA 2	28.4	42.5	25.4	40.5	40.9	42.4	50.8	56.6	244.1	571.6

(**Installation cost included in contract)

Exhibit P-1N Procurement Program Installation Summary

REPORTS / ROL SYMBOL DD-COMP(AR)1092		UNCLASS		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE JCSE EQUIPMENT									(885777)
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01			
QUANTITY											
COST(IN MILLIONS)		1.0	1.8	2.3	2.5	2.8	3.1	0.0 / 0.0			
<p>DESCRIPTION:</p> <p>Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile, multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellite radios, MILSTAR radios and automatic data processing equipment.</p>											
<p>JUSTIFICATION:</p> <p>FY 96 and FY 97 funds will partially fund 2 ea MILSTAR Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T). These systems are required by JCSE contingency communications teams on Joint Staff directed missions.</p>											
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DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 20 PAGE NO 1 OF 1				UNCLASSIFIED		Page 1 of 1 Pages EXHIBIT P-40			

UNCLASSIFIED									
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	BUDGET ITEM JUSTIFICATION SHEET							DATE February 1996	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment									
P-1 ITEM NOMENCLATURE DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS)									
(BB850C)									
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/FY 01		
QUANTITY									
COST (IN MILLIONS)	77.6	103.8	78.2	99.9	93.3	93.4	65.2/65.2		
DESCRIPTION: The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations, and among overseas Worldwide Military Command and Control System (WMCCS) activities.									
JUSTIFICATION: Funds are required to support various requirements as directed by the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C3, NATO, UK, and Diplomatic Telecommunications Service (DTS). FY96/97 funds for Jam Resistant Secure Communications (JRSC) provide for a full scale production procurement data package, source selection, and production award of the Universal Modem (UM). FY96/97 Mod of In-Service Equipment funds will continue the contractual effort for the fabrication and installation of modification kits for the medium terminals essential to sustain the current three billion dollar (\$3B) investment in the DSCS ground system. FY97 funds will initiate an upgrade program which will increase the effective size of the AN/GSC-52 antenna. FY96/97 DSCS Operations Control System (DOCS) funding will provide for the continued acquisition of semi-automated control equipment that will allow more efficient use of the space segment, thereby providing greater user support. FY96/97 Digital Equipment funds will provide for fabrication of racks, components, vans and their integration into the DSCS. FY96/97 Interconnect Facility funds will accomplish Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US forces worldwide.									
DD Form 2454, JUL 88									
P-1 SHOPPING LIST									
ITEM NO 21 PAGE NO OF									
UNCLASSIFIED									
Page 1 of 41 Pages EXHIBIT P-40									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-6)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) Total Cost In Thousands of Dollars				C. MANUF Numerous See P5a		D. DATE February 1996	
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	FY94		FY95		FY96		FY97			
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	TOTAL COST	
DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)						10,815		7,285		30,185	
DSCS - MOD OF IN-SVC EQUIP (BB8416)						45,674		40,501		31,776	
DSCS - DSCS OPERATIONS CONTROL SYSTEM (DOCS) (BB8509)						14,632		6,714		15,476	
DSCS - DIGITAL EQUIPMENT (BB8501)						28,119		20,762		19,116	
DSCS - INTERCONNECT FACILITY (BB8504)						4,546		2,970		3,311	
TOTAL DSCS						103,786		78,232		99,864	

UNCLASSIFIED										DATE February 1995
REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE DSCS - JAM RESISTANT SECURE COMM (JRSC)								
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00/FY01		
QUANTITY										
COST (IN MILLIONS)		4.4	10.8	7.3	30.2	40.4	44.8	28.9/28.8		
<p>DESCRIPTION: The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. JRSC requirements are characterized by a combination of existing satellite equipments. They include: AN/GSC-52, JRSC Satellite Terminals AN/GSC-49, and AN/USC-28 Spread Spectrum Multiple Access Equipment including Mitigation Modifications. Enhancements to the AN/GSC-49 terminals are required to accommodate the tri-service users and the changing requirements of the Defense Information Systems Agency (DISA). The funding is required to provide overall JRSC user-to-user anti-jam HEMP protection as directed by the Joint Chiefs of Staff (JCS). The Universal Modem System will enable strategic and tactical forces under the command of the U.S., U.K., France and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponder of the DSCS III NATO or SKYNET 4 satellite systems. The AN/USC-28 provides high anti-jam communications for the DSCS.</p> <p>JUSTIFICATION: FY96 funding for the AN/USC-28 will be used to replace the maxal computers within the AN/USC-28. FY96 Universal Modem (UM) funding provides for labor intensive effort for full scale production procurement data package and source selection. FY97 funding for Universal Modem will be for production award and Government support.</p>										
DD FORM 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 21			PAGE NO OF			UNCLASSIFIED		Page 3 of 41 Pages EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-6)			A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300) TOTAL COST IN THOUSANDS OF DOLLARS						C. MANUF Numerous See P5a		D. DATE February 1995					
WEAPONS SYSTEM COST ELEMENTS			IDENT CODE	FY94 QTY		TOTAL COST		FY95 QTY		TOTAL COST		FY96 QTY		TOTAL COST		FY97 QTY		TOTAL COST	
HEMP HARDENING			A	6		3,246		12		7,903									
HARDWARE				541				659											
ENGINEERING SUPPORT						546				1,120									
GOVERNMENT ENGINEERING						266				762									
CONTRACTOR ENGINEERING						105				540									
DOCUMENTATION						189				490									
FIELDING																			
TOTAL HEMP HARDENING						4,352				10,815									
UNIVERSAL MODEM																			
HARDWARE																400		50	
NON-RECURRING ENG/TEST																	19,981		
ENGINEERING SUPPORT																	5,999		
GOVERNMENT ENGINEERING																	1,278		
CONTRACTOR ENGINEERING																	822		
DOCUMENTATION																	1,102		
GOVERNMENT FURNISHED EQUIPMENT																	376		
PROJECT MANAGEMENT																	627		
TOTAL UNIVERSAL MODEM																	30,185		
AN/USC-28																			
REPLACE AN/USC-28 MAXAL													43						
COMPUTERS HARDWARE													122						
TOTAL AN/USC-28																	5,285		
TOTAL JRSC							4,352				10,815						7,285		
																	30,185		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	February 1996
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE								
Other Procurement, Army 2 - Communications and Electronics Equipment			DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)								
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
HEMP HARDENING											
FY 1994	HARRIS CORP, MELBOURNE, FL	C/FP (OPT)	CECOM	Feb 94	Aug 95	6	541,000	YES	NO		
FY 1995	HARRIS CORP, MELBOURNE, FL	C/FP (OPT)	CECOM	Feb 95	Aug 96	12	658,583	YES	NO		
ANJUSC-28 FY 1996	MAGNAVOX, TORRANCE, CA	SS/FFP	CECOM	Mar 96	Mar 97	122	43,320	YES	NO		
UNIVERSAL MODEM FY 1997	TBS	C/FP	CECOM	Jan 97	Mar 99	50	** 399,620	NO	YES	FY98	
D. REMARKS: * INCLUDES CONTRACTOR INSTALLATION COSTS											
** IT SHOULD BE NOTED THAT THE UNIT COST FOR A SINGLE CHANNEL EQUIVALENT UNIVERSAL MODEM IS \$81.6K. THE COST AT ** IS FOR A FULLY POPULATED UNIVERSAL MODEM WITH ITS COMPLEMENT OF SYSTEM PLANNING TOOLS AND TRAINING DEVICES.											

PRODUCTION SCHEDULE (EXHIBIT P-21)										P-1 ITEM NOMENCLATURE DSCS - JAM RESISTANT SECURE COMM (JRSC)										DATE February 1995												
FAC	S	PROCUREMENT QUANTITY					ACCEP PRIOR	BAL DUE	FISCAL YEAR 1997										FISCAL YEAR 1996													
		FY93 APR	FY 94	FY 95	FY 96	FY 97			CALENDAR YEAR 1997										CALENDAR YEAR 1996													
C							1995										1996															
ANUSC-28									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1	A				122		0	122							A											15	15	15	15	15	15	17
																																0
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FAC		S		PROCUREMENT QUANTITY				ACCEP		BAL		FISCAL YEAR 96												FISCAL YEAR 97																											
V		C		FY 83 & PY		FY 94		FY 95		FY 96		FY 97		PRIOR		DUE		CALENDAR YEAR 1996												CALENDAR YEAR 1997																					
																		1995																																	
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UNIVERSAL MODEL																		O N D J F M A M J J J A S O N D J F M A M J J																																	
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UNCLASSIFIED									
REPORTS CONTROL SYMBOL	BUDGET ITEM JUSTIFICATION SHEET								DATE February 1995
DD-COMP(AR)1092									
APPROPRIATION / BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE								
Other Procurement, Army 2 - Communications and Electronics Equipment	DSCS - MOD OF IN-SVC EQUIP								
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/PY 01		
QUANTITY									
COST (IN MILLIONS)	27.4	45.7	40.5	31.8	26.1	17.1	14.7/14.7		
DESCRIPTION: These modifications will upgrade aging heavy (HT) and medium (MT) satellite earth terminals so that all Defense Satellite Communications System Super High Frequency (SHF) strategic earth terminals will use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. In addition, an Engineering Change Proposal (ECP) is planned for the upgrade of the AN/GSC-52 Antenna, which will enhance mission effectiveness.									
MODIFICATION WORK ORDER (MWO) MODIFICATION TITLE FY94 FY95 FY96 FY97									
1-99-07-0005	Terminal Modernization 27.4 45.7 40.5 8.1								
1-99-07-0030	Antenna Upgrade/Low Noise Amplifier (LNA) 27.4 45.7 40.5 23.7								
TOTALS	27.4 45.7 40.5 31.8								
JUSTIFICATION: FY96 funds are required to complete the fabrication of the AN/GSC-39 Medium Terminal (MT) and the installation of HT/MT MWO kits (Terminal Mod program). FY97 funds are required to continue the installation/fielding of the Terminal Mod program and initiate an antenna upgrade/LNA which will increase the effective size of the antenna at selected high capacity traffic sites.									
DD FORM 2454, JUL 90 P-1 SHOPPING LIST UNCLASSIFIED Page 12 of 41 Pages ITEM NO 21 PAGE NO OF EXHIBIT P-40									

(BB941)

MODIFICATION OF WEAPON SYSTEMS

MODIFICATION TITLE: Terminal Modernization, MC No. 1-89-07-0005

MODELS OF SYSTEMS AFFECTED: AN/FSC-7879 and AN/GSC-39

DESCRIPTION: The AN/FSC-7879 Heavy Terminals (HT) and the AN/GSC-39 Medium Terminals (MT) began operation in the mid-1970's and have surpassed their design life of fifteen years. The original systems were fielded with a required Mean Time Between Failure (MTBF) of 1,000 hours. Due to aging, the MTBF degraded significantly. The Terminal Modernization program will eliminate system obsolescence and enable the terminals to achieve the required 1,000 hours MTBF. The contract was awarded in Mar 92 for this modernization effort, which will provide for upgrade of aging electronics in the HT/MT satellite earth terminals so that all Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals will use common electronics and logistics support. The result will extend the life of the terminals for another fifteen years, enhance operational readiness, reduce training and logistics support, conserve energy and improve maintainability. This Tri-Service DOD Program was approved in the FY91-95 DSCS Program Plan, June 1989.

JUSTIFICATION: FY96 funds are required to complete the fabrication of the AN/GSC-39 Medium Terminal (MT) modification kits. FY97 funds are required to complete the installation/fielding of the Terminal Modernization program. FY97 funds are required for installation of the AN/GSC-39 Medium Terminals (MT) Modification Kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: No development required.

MODIFICATION OF APON SYSTEMS
TERMINAL MODERNIZATION, MC. NO. 1-89-07-0005

FINANCIAL PLAN: (\$ in Millions)																		
	FY94 & PR		FY95		FY96		FY97		FY98		FY99		FY00		FY01		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																		
PROCUREMENT																		
Installation Kits	27	4.5	13	2.2	12	2.0	0		0		0					0.0	52	8.7
Installation Kit Nonrecurring		3.0		1.2		0.0										0.0	0	4.2
Equipment		47.9		25.9		22.0										0.0	0	95.8
Equipment Nonrecurring		15.5		1.2		0.0										0.0	0	19.5
Engineering Change Orders		4.1		1.8		1.5					2.8					0.0	0	7.4
Data		11.3		0.5		0.4										0.0	0	12.2
Training Equipment		2.6		0.0		0.0										0.0	0	2.6
Support Equipment		0.0		0.3		0.0										0.0	0	0.3
GFE		6.3		0.0		0.0										0.0	0	6.3
Project Mgt Admin		1.5		0.7		0.8		0.5								0.3	0	4.6
Fielding		0.9		0.4		0.5		0.3								0.0	0	2.6
Interim Contractor Support		0.6		2.6		2.7		0.6								0.2	0	7.7
Gov't/Contr Engineering		10.1		5.5		5.2		1.1								0.2	0	23.6
Installation of Hardware																0.0	0	0.0
(FY94 & Prior) Eqpt (27 kits)			4	3.4	10	5.4	12	5.6	1	0.5						0.0	27	14.9
(FY95) Eqpt (13 kits)									11	5.2						0.0	13	6.2
(FY96) Eqpt (12 kits)																0.0	12	5.7
Total Installation Cost		0.0		3.4		5.4		5.6		5.7						1.0	0	26.8
Total Procurement Cost		108.3		45.7		40.5		8.1		8.1		9.9		1.7		0.0	0	222.3

METHOD OF IMPLEMENTATION: MWO
CONTRACT DATES: FY94; MAR 94
DELIVERY DATE: FY94; APR 96

ADMINISTRATIVE LEADTIMES: Months
FY95; MAR 95
FY95; APR 97

PRODUCTION LEADTIME: 36 Months
FY96; MAR 96
FY96; APR 98

PY	FY95	FY96	FY97	FY98	FY99	FY00	FY01	Total
	1 2 3 4 1	2 3 4 1	2 3 4 1	2 3 4 1	2 3 4 1	2 3 4 1	2 3 4	
0	2 3 6 6	6 1 1 1	1 1 1					27
			3 3 3 3 1					13
				2 3 3 1				12
	2 2 1	3 3 3 3	3 3 3 3 1					27
				2 3 3 3 2				13
					1 3 3 3	2		12

INSTALLATION SCHEDULE:

INPUT:

FY94 & Prior
FY95
FY96

OUTPUT:

FY94 & Prior
FY95
FY96

Show Install schedule through the FYDP

Page 14 of 41 Pages

Exhibit P-3a Individual Modification

February 1995

MODIFICATION OF WEAPON SYSTEMS

MODIFICATION TITLE: Antenna Upgrade/Low Noise Amplifier (LNA), MC No. 1-89-07-0030

MODELS OF SYSTEMS AFFECTED: AN/GSC-52 Antenna Upgrade/LNA

DESCRIPTION: This block modification encompasses Engineering Change Proposal (ECP) in support of the AN/GSC-52 Antenna Upgrade/Low Noise Amplifier (LNAs) which will enhance terminals capability to perform its mission as directed by DISA DSCS Program Plan FY93-98. The FY97-98 modification will increase the effective size of the antenna at selected High Capacity traffic sites.

JUSTIFICATION: This was directed by DISA DSCS Program Plan FY93-98, dated January 1994. The enhancement of the antenna will ensure more efficient utilization of limited satellite resources. FY97 funds are required to procure five AN/GSC-52 Antennas.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: No development required.

February 1995

MODIFICATION OF WEAPON SYSTEMS

MC. NO. 1-89-07-0030

Antenna Upgrade (AN/GSC-52)/Low Noise Amplifier

FINANCIAL PLAN: (\$ in Millions)	Prior Qty	Prior \$	FY95 Qty	FY95 \$	FY96 Qty	FY96 \$	FY97 Qty	FY97 \$	FY98 Qty	FY98 \$	FY99 Qty	FY99 \$	FY00 Qty	FY00 \$	FY01 Qty	FY01 \$	Total Qty	Total \$
RDT&E																		
PROCUREMENT																		
Nonrecurring								4.0									0	4.0
(Hardware/Software)																		
Installation kits incl Equipment					5	10.5	5	10.5	5	10.5						0.0	10	21.0
Site Preparation							2.5	2.5		2.5						0.0	0	5.0
Engineering Change Orders							0.4	0.4		0.4						0.0	0	0.8
Data							1.2	0.3		0.3						0.0	0	1.5
Testing (First Article)							0.7	0.0		0.0						0.0	0	0.7
Warranty							0.5	0.5		0.5						0.0	0	1.0
Training							0.0	0.0		0.0						0.0	0	0.4
Interim Contractor Support							0.0	0.0		0.0						0.0	0	1.5
Project Mgmt Admin							0.9	0.8		0.8						0.0	0	2.7
Gov't/Contr Support							2.2	2.2		2.2						0.0	0	7.0
Installation of Hardware					5	0.8	5	0.8		0.8						0.0	10	1.6
Total Procurement Cost							23.7	18.0		18.0						0.0	0	47.2

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: Initial 16 Months *
 CONTRACT DATES: FY97;FEB 98 Reorder 12 Months
 DELIVERY DATE: FY99;FEB 99 * Delivery after FAT will start in 24th month

INSTALLATION SCHEDULE:

INPUT:

FY97

FY98

OUTPUT:

FY97

FY98

PY	FY95	FY96	FY97	FY98	FY99	FY00	FY01	Total
	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4							
					0 3 2			5
					1 3 1			5
					0 2 3			5
					3 2			5

Show Install schedule through the FYDP

February 1995

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

System/Modification	Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
Defense Satellite Communications System (DSCS) Modifications									
Terminal Modernization (0005)		3.4	5.4	5.7	5.7	5.7	1.0	0.0	26.9
Antenna Upgrade/Low Noise Amplifier (LNA) (0030)				0.8	0.8				1.6
Total for DSCS - Mod of In-Svc Equip		3.4	5.4	6.5	6.5	5.7	1.0	0.0	28.5

[illegible][illegible]

PROCUREMENT LEAD TIME					
	ADMIN LEAD TIME		Production	TOTAL AFTER 1-OCT	
	PRIOR 1 OCT	AFTER 1 OCT			
INITIAL	10		5	36	41
REORDER	0		5	25	30

REMARKS

Terminal Mod Materiel Change No. 1-89-07-0005

UNCLASSIFIED										DATE February 1995
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE DSCS - OPERATIONS CONTROL SYS (DOCS)									
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/PY 01			
QUANTITY										
COST (IN MILLIONS)	16.3	14.6	6.7	15.5	10.1	17.7	10.3/10.3			
<p>DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs. It is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically controls operations over these links. It is intended to replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of required personnel, and increase overall system availability. The DOCS supports control of the satellite payload, strategic network planning, satellite communications link performance monitoring, and control of the ground terminals. The DOCS assures reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.</p> <p>JUSTIFICATION: FY96 funds will finance the final procurement of the DSCS Integrated Management System (DIMS). The DIMS provides automated data exchange between DSCS subsystems and remote monitoring capability of DSCSOC subsystems. It will also fund annualized engineering and matrix support of prior year procurements. FY97 funds will finance the first production units of the Replacement Satellite Configuration Control Element (RSCCE). The RSCCE provides real-time monitoring and control of the DSCS III satellite platform and communications payload. The RSCCE system can simultaneously control and acquire telemetry data from three pre-designated satellites. It will also fund annualized engineering and matrix support of prior year procurements.</p>										
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WEAPON SYSTEM COST ANALYSIS IBIT (P-5)			A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME DSCS - Operations Control Sys (DOCS)			C. MANUF Numerous See P5a		D. DATE February 1995			
WEAPONS SYSTEM COST ELEMENTS			IDENT CODE	FY94 UNIT COST QTY		FY95 UNIT COST QTY		FY96 UNIT COST QTY		FY97 UNIT COST QTY		TOTAL COST		
Hardware			A	1,115 10		1,038 9		950 2		2,227 4		8,906		
DIMS												2,747		
RSCCE						2,824 1,712		2,636 1,734				1,814		
Engineering Support						303 453		32 412				2,009		
Contractor Engineering														
Government Engineering														
Documentation														
Fielding														
Total DOCS					16,319		14,632						15,476	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										February 1995
C. P-1 ITEM NOMENCLATURE										
DSCS - Operational Control Sys (DOCS)										
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
DSCS Integrated Management Sys (DIMS) FY 1994	Stanford Telecom, Inc Colorado Springs, CO	C/FP	CECOM	Apr 94	Feb 95	10	1,114,900	YES	NO	
FY 1995	"	C/FP (OPT)	CECOM	Feb 95	Dec 95	9	1,037,778	YES	NO	
FY 1996	"	C/FP (OPT)	CECOM	Nov 95	Sep 96	2	950,000	YES	NO	
Replacement Satellite Configuration Control Element (RSCCE) FY 1997	TBS	C/FP	CECOM	Mar 97	Nov 98	4	2,226,500	YES	NO	
D. REMARKS:										

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE DSCS - DIGITAL EQUIPMENT (BB 8501)								
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST (In Millions)	26.2	28.1	20.8	19.1	13.4	10.4	8.1	8.1		
<p>DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS Phase II and Phase III satellites that are in geostationary earth orbits for worldwide coverage.</p> <p>This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization.</p> <p>a. This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a vanized or fixed configuration.</p> <p>b. Each system is tailored to the individual user earth terminal requirements.</p> <p>JUSTIFICATION: Due to current aging equipment and projected future operational needs, the DSCS Program must be sustained through the year 2010. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY 96/97 funds will provide for fabrication of racks, components, and DCSS vans and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. Also a priority is the fabrication of new DCSS AN/MS-74 operations vans in support of earth terminal installations at key DCS sites. These new vans, JRSC racks, and FDMA racks provide the maximum efficiency in long-range communications by integrating in one system all digital communications functions, satellite control, and anti-jam secure communications. The critical DCSS sustainment program will continue in this timeframe with the procurement/fielding of new modems (OM-73) and the teletype replacement system consisting of the Universal Terminal Emulator (UTE). Another DCSS priority effort is the Multiplex Sustainment Program which involves replacing the 1960's multiplex technology with the DSCS/DCS standard Integrated Digital Network Exchange (IDNX). The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Entry Point Gateways (STEP), the only means of interoperable communications providing tactical field commanders global connectivity with each other and with strategic commanders, CINCs, and the Pentagon. An additional sustainment effort is to field the state-of-the-art Data Statistics Processor (DSP) in support of the IDNX and other DSCS requirements.</p>										
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		PAGE NO OF								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME DSCS - DIGITAL EQUIPMENT (BB8601) TOTAL COST IN THOUSANDS OF DOLLARS		C. MANUF Numerous See P5a		D. DATE February 1985	
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	FY84		FY85		FY86		FY87	
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY
DCSS EQUIPMENT RACKS AND FABRICATION	A								
Hardware Integration		VAR	9	9,698 300	7	7,031 319	6	5,787 325	7
Engineering Support Contractor Engineering Government Engineering				1,764 1,788		1,775 1,800		1,785 1,825	
Documentation				1,500		1,500		1,500	
OM-73 Modern Procurement Hardware		17	102	1,734 1,439 250	300	5,100	220	3,740	
Non-Recurring Contr Engrg Documentation									
Universal Terminal Emulator					200	2,500	24	300	
Multiplex Systems		VAR	14	5,601	8	5,500	8	5,500	9
Data Statistics Processor		VAR	95	2,122	124	2,594			
TOTAL DCSS				26,196		28,119		20,762	
									19,116

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)									
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				
Other Procurement, Army 2 - Communications and Electronics Equipment					DSCS - DIGITAL EQUIPMENT				
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD
DCSS EQUIPMENT *									IF YES, WHEN AVAIL
RACKS AND FABRICATION									
FY 1994	TOAD	WR	CECOM	Nov 93	Jan 94	9	VAR	YES	
FY 1995	TOAD	WR	CECOM	Nov 94	Jan 95	7	VAR	YES	
FY 1996	TOAD	WR	CECOM	Nov 95	Jan 96	6	VAR	YES	
FY 1997	TOAD	WR	CECOM	Nov 96	Feb 97	7	VAR	YES	
OM-73 MODEM PROCUREMENT									
FY 1994	GROUP TECH CORP.	C/FFP	CECOM	May 94	Sep 95	102	17,000	YES	
FY 1995	GROUP TECH CORP.	C/FFP	CECOM	Mar 95	Oct 95	300	17,000	YES	
FY 1996	GROUP TECH CORP.	C/FFP	CECOM	Mar 96	Oct 96	220	17,000	YES	
MULTIPLEX SYSTEMS									
FY 1994	NET	MIPR	AF	Feb 94	May 94	14	VAR	YES	
FY 1995	NET	MIPR	AF	Feb 95	May 95	8	VAR	YES	
FY 1996	NET	MIPR	AF	Feb 96	May 96	8	VAR	YES	
FY 1997	NET	MIPR	AF	Feb 97	May 97	9	VAR	YES	
UTE									
FY 1995	GRID SYSTEMS	MIPR	AF	Mar 95	Jul 95	200	12,500	YES	
FY 1996	GRID SYSTEMS	MIPR	AF	Mar 96	Jul 96	24	12,500	YES	
DATA STATISTICS PROCESSOR									
FY 1994	NET	MIPR	AF	May 94	Jun 94	96	VAR	YES	
FY 1995	NET	MIPR	AF	Mar 95	Apr 95	124	VAR	YES	

D. REMARKS:

* CONFIGURATION IS SITE DEPENDENT

WR = WORK REQUEST

TOAD = TOBYHANNA ARMY DEPOT

MIPR = MILITARY INTERDEPARTMENTAL PURCHASE REQUEST

VAR = VARIABLE

NET = NETWORK EQUIPMENT TECHNOLOGY

GROUP TECH CORP. = GROUP TECHNOLOGIES CORPORATION

UTE = UNIVERSAL TERMINAL EMULATOR

P-1 ITEM NOMENCLATURE DSCS - DIGITAL EQUIPMENT										DATE February 1995													
FISCAL YEAR 1994										FISCAL YEAR 1995													
CALENDAR YEAR 1994										CALENDAR YEAR 1995													
O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
MULTIPLY SYSTEMS																							
4	A		14																				
4	A			8																			
4	A				8																		
4	A					9																	
UNIVERSAL TERMINAL EMULATOR																							
5	A			200																			
5	A				24																		
DATA STATISTICS PROCESSOR																							
6	A		95																				
6	A																						
TOTAL																							
0	109	332	32	9	0	0	0	482	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185

REMARKS

MULTIPLY SYSTEMS/UNIVERSAL TERMINAL EMULATOR/DATA
STATISTICS PROCESSOR: NO PROCUREMENT LEAD TIME AS
FUNDS WILL BE MIP'D TO AN EXISTING CONTRACT

PAGE 35 of 41

PROCUREMENT LEAD TIME				TOTAL
ADMIN	LEAD TIME		PRODUCTION	AFTER 1-OCT
	PRIOR 1 OCT	AFTER 1 OCT		
INITIAL	N/A			
REORDER	N/A			

FACMAN NAME & LOC	MIN	185	MAX	REACHED
4 NET		N/A		
5 GRID SYSTEMS		N/A		
6 NET		N/A		

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE DSCS--Interconnect Facility (BB 8504)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
	\$	\$	\$	\$	\$	\$	\$	\$	
COST (In Millions)	3.3	4.5	3.0	3.3	3.3	3.4	3.3	3.3	
<p>DESCRIPTION: This program installs and interfaces strategic satellite communications earth terminals procured by Project Manager, Satellite Communications (PM SATCOM) with digital communications equipment procured and packaged by Communications-Electronics Command (CECOM) and interfaces with existing technical control and special user facilities.</p> <p>JUSTIFICATION: FY 96/97 funds will buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. The end of the Cold War, with its reduced overseas manning and the refocus of US interests to areas such as Southwest Asia, require a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems be replaced by newer systems made available by US troop withdrawals from Europe and other areas.</p>									
DD Form 2454		P-1 Shopping List Item No. 21		Page No. 37 of 41		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME DSCS - INTERCONNECT FACILITY (BB 8504)			C. MANUF Numerou See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		FY 94		FY 95		FY 96		FY 97			
		IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
A&E DESIGN		A	VAR	3	471	VAR	3	2,325	400	1	400
SITE PREP		A				VAR	VAR	150	VAR	1	2,000
INTERCONNECT FACILITY MBOM		A				VAR	VAR	150	VAR	VAR	500
FIBER OPTIC MODEMS		A				VAR	VAR	150	VAR	VAR	311
IBOM F/INSTL		A	VAR	VAR	457	VAR	VAR	150	VAR	VAR	311
FIELDING		A	VAR	VAR	123	386	1	386			
DIRECT COMM LINK		A	VAR	VAR	145						
DEICER REFURB & INSTL		A	VAR	VAR	123						
INSTALLATION & CHECKOUT SPARES		A	VAR	VAR	260	VAR	VAR	520	VAR	VAR	500
SATELLITE EQUIPMENT MGT SYS		A	VAR	VAR	80	VAR	VAR	300	VAR	VAR	500
POWER SYSTEM UPGRADE		A	970	1	970						
UNINTERRUPTABLE POWER SUPPLY (UPS)		A	324	1	324	500	1	500			
ICF TEST FACILITY		A	262	1	262	65	1	65			
BATTERIES/RACK		A									
FT. BUCKNER ASCT		A	70	1	70						
TECH SPT FOR NAVY 9 RADOME		A	45	1	45						
TOTAL					3,330	4,546			2,970		3,311

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE DSCS - INTERCONNECT FACILITY (BB 8504)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
A&E DESIGN FY 94 FY 96	IN-HOUSE TBS	MIPR TBS	COE 1/ COE	MAY 94 MAR 96	SEP 94 JUN 96	1 1	400 400	NO			
SITE PREP FY 95 FY 97	IN-HOUSE TBS	MIPR C/FP	COE COE	NOV 94 MA 4 97	MAR 95 MAR 97	3 1	VAR* 2,000	YES NO	NO		
ICF/MBOM FY 95 FY 96 FY 97	VAR** VAR** VAR**	VAR VAR VAR	SHARPE DEPOT SHARPE DEPOT SHARPE DEPOT	MAR 95 NOV 95 NOV 96	MAR 95 MAR 96 MAR 97	VAR* VAR* VAR*	VAR* VAR* VAR*	YES YES YES	NO NO NO		
FIBER OPTICS MODEMS FY 95	TBS	C/FP	ISC	JUN 95	FEB 95	VAR*	VAR*	YES	NO		
IBOM F/ISTL FY 94 FY 95 FY 96 FY 97	VAR** VAR** VAR** VAR**	VAR VAR VAR VAR	SHARPE DEPOT SHARPE DEPOT SHARPE DEPOT SHARPE DEPOT	VAR VAR VAR VAR	JAN 94 JAN 95 JAN 96 JAN 97	VAR* VAR* VAR* VAR*	VAR* VAR* VAR* VAR*	YES NO NO NO	NO		
FIELDING FY 94	IN-HOUSE	MIPR	ISEC	VAR	VAR	VAR	VAR	VAR			

D. Remarks:
COE = CORPS OF ENGINEERS
1/ = CORPS OF ENGINEERS, WINCHESTER, VA
* = SITE SPECIFIC
** = VARIOUS CONTRACTS AWARDED BY SHARPE DEPOT

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE DSCS - INTERCONNECT FACILITY (BB 8504)						
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
DIRECT COMM LINK FY 94 FY 95	VAR* SIS, INC 1/	VAR C/FP	SHARPE DEPOT ISC	MAY 94 DEC 94	AUG 94 DEC 94	VAR 1	VAR 386	YES	NO	
DEICER REFURB & INSTL FY 94	WALTON IND 2/	S/S	CECOM	MAR 94	MAY 94	VAR	VAR			
I&C SPARES FY 94 FY 95 FY 96 FY 97	IN-HOUSE IN-HOUSE IN-HOUSE IN-HOUSE	REQ REQ REQ REQ	CECOM CECOM CECOM CECOM	VAR VAR VAR VAR	DEC 93 NOV 94 DEC 95 NOV 96	VAR** VAR** VAR** VAR**	VAR** VAR** VAR** VAR**	YES YES YES YES	NO NO NO NO	
SAT EQUIP MGT SYS FY 94 FY 95 FY 96	SAIC 3/ SAIC SAIC	C/FP C/FP C/FP	ISC ISC ISC	APR 94 NOV 94 NOV 95	JUN 94 DEC 94 DEC 95	VAR** VAR** VAR**	VAR** VAR** VAR**	YES YES YES	NO NO NO	
POWER SYSTEM UPGRADE FY 94	IN-HOUSE	MIPR	29th AREA SPT GRP	DEC 93	FEB 94	1	970			
UPS FY 94 FY 95	EXIDE 4/ EXIDE	C/FP C/FP	NAVALEX NEESC /5	JUN 94 FEB 95	SEP 94 MAY 95	1 1	324 500	YES	NO	

D. Remarks:

* = VARIOUS CONTRACTS AWARDED BY SHARPE DEPOT

** = SITE SPECIFIC

1/ SIS, INC = SPREAD INFORMATION SCIENCES, INC., BAYSIDE, NY

2/ WALTON INDUSTRIES, RIVERSIDE CA

3/ SAIC = SCIENCE APPLICATIONS INTERNATIONAL CORP, SIERRA VISTA, AZ

4/ EXIDE, COLUMBIA, MD

5/ NFESC = NAVAL FACILITIES ENGINEERING SERVICE CENTER

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

C. P-1 ITEM NOMENCLATURE
DSCS - INTERCONNECT FACILITY (BB 8504)

B. APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
ICF TEST FACILITY FY 94	NET 1/	C/FP	DECCO	JUN 94	AUG 94	1	262			
BATTERIES/RACK FY 95	EXIDE 2/	C/FP	NFESC 3/	JAN 95	APR 95	1	65	YES	NO	
FT. BUCKNER ASCT FY 94	IN-HOUSE	MIPR	COE 4/	NOV 93	DEC 93	1	70			
TECH SPT FOR NAVY 9 RADOME FY 94	ANTENNAS FOR COMMUNICATIONS 5/	C/FP	CECOM	MAR 94	JUN 94	1	45			

D. Remarks:
1/ NET = NETWORK EQUIPMENT TECHNOLOGIES, REDWOOD CITY, CA
2/ EXIDE, COLUMBIA MD
3/ NFESC = NAVAL FACILITIES ENGINEERING SERVICE CENTER
4/ COE = US ARMY CORPS OF ENGINEERS--JAPAN
5/ ANTENNAS FOR COMMUNICATIONS, OCALA, FL

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE SAT TERM, ADVANCED MPK UHF		(K77200)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/FY
QUANTITY	275	500	618	473	447		
COST (IN MILLIONS)	9.6	15.0	17.5	13.4	11.5	0	0/0
<p>DESCRIPTION: The Ultra High Frequency (UHF) Tactical Satellite Manpack program is a family of single channel radios consisting of existing inventory of LST-5 and PSC-3/VSC-7's and an Enhanced Manpack UHF Terminal (EMUT) program to modify, or replace the existing inventory of radios to add Communications Security (COMSEC) and Demand Assigned Multiple Access (DAMA) to support Special Operations Forces (SOF) and all other users. The Advanced Manpack UHF Terminal (AMUT) program will incorporate COMSEC and DAMA features in a terminal that meets the weight and size requirements specified by the user.</p> <p>JUSTIFICATION: The FY-96 and FY 97 funds will be used to continue to replace the current Army UHF tactical satellite manpack terminals (LST-5/PSC-3/VSC-7) to provide embedded crypto compatible with the KY-57 and Advanced Narrowband Digital Voice Terminal (ANDVT) for Comsec Operation with the AN/PSC-5. This will eliminate the need for the soldier to carry crypto equipment for similar operational requirements. In 1989 Joint Staff (JS) mandated that all UHF satellite manpack terminals be secure by 1994 (since rescheduled to 1996) and have DAMA capability by 1996. No other DOD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.</p>							
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 22 PAGE NO 1 OF 6		UNCLASSIFIED		Page 1 of 6 Pages EXHIBIT P-40	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME SAT TERM, ADVANCED MANPACK UHF (K77200)				C. MANUF Numerous See P5a	D. DATE February 1995
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	FY94		FY95		FY96		FY97	
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY
1. HARDWARE	A	18,553	275	22,004	*527	11,596	21,305	13,635	473
2. ENGINEERING SUPPORT									
a. Contractor Engineering						565		538	518
b. Government Engineering						1,131		1,269	1,288
3. CLAIM/ECP						1,226		1,159	590
4. DATA						0		0	0
5. TEST						295		0	0
6. FIELDING						138		897	977
7. TOTAL						14,951		17,498	13,380

* The P1 quantity has not been updated to reflect the latest projections.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE February 1990

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

SAT TERM, ADVANCED MANPACK UHF (K77200)

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
SAT TERM, ADVANCED MANPACK UHF										
FY 1994	MAGNAVOX ELECTRONIC SYS INC., FT. WAYNE, IN	C/FFP	CECOM	Jan 94	May 95	275	18,553	YES	NO	
FY 1995	MAGNAVOX ELECTRONIC SYS INC., FT. WAYNE, IN	FFP/OPT	CECOM	Mar 95	Jun 96	527	22,004	YES	NO	
FY 1996	MAGNAVOX ELECTRONIC SYS INC., FT. WAYNE, IN	FFP/OPT	CECOM	Jan 96	Apr 97	640	21,305	YES	NO	
FY 1997	MAGNAVOX ELECTRONIC SYS INC., FT. WAYNE, IN	FFP/OPT	CECOM	Jan 97	Apr 98	473	21,156	YES	NO	

D. REMARKS:

Quantities have been adjusted to reflect planned procurements. Changes in unit cost are the result of fluctuating costs and schedules of individual government furnished hardware components.

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE
Navstar Global Positioning System

(K47800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00/FY01
QUANTITY	14318	14517	15025	14026	9027	0	0 0
COST(IN MILLIONS)	32.4	32.1	32.5	31.5	22.3	0	9.9 24.9

DESCRIPTION:

The Navstar Global Positioning System (GPS) is a passive space-based radio positioning and navigation system that provides precise velocity, time and position information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) consists of a family of sets designed to accommodate the differing dynamic user environments to include handheld as well as host vehicles. Current Army acquisition strategy is to procure a mix of Non-Development Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. MILSPEC GPS UE currently used by the Army includes a 1-channel set for Manpack/Vehicular applications, a 2-channel set for aircraft and a 5-channel set for ocean-going watercraft. Miniaturized Airborne GPS Receiver (MAGR) is a NDI 5-channel set which is the objective system for modernized Apache and Quickfix aircraft. Precision Lightweight GPS Receiver (PLGR) is an NDI receiver procured as the Army objective GPS system for ground users, various selected airframes, and host vehicles. It is a stand-alone receiver designed to receive and process data from 4 different satellites on either a simultaneous or sequential basis. This receiver will meet DoD requirements for Selective Availability (SA) and Anti-Spoofing (A-S). Selective Availability is the intentional corruption/degradation of GPS navigation signals by the US to deny unauthorized users full military accuracy. With SA decryption in GPS receivers, military capability is upgraded and user accuracy is enhanced. Anti-Spoofing is the receiver capability that ensures signals are correctly received from the true source and therefore are not spoofed.

JUSTIFICATION:

The FY96 and FY97 program provides for the procurement and continued fielding of the PLGR to the Contingency Force. It provides for the procurement of MAGRs in support of Ground Based Common Sensor, Air Reconnaissance Low and Advanced Quick Fix. The FY96 program provides for the procurement of Air GPS for specified air platforms. The FY97 program provides for the procurement of embedded cards and chips and their integration and engineering efforts.

WEAPON SYSTEM COST ANALYSIS			A. APPROPRIATION NO.			B. WEAPON MODEL/SERIES/POPULAR NAME						C. MANUF		D. DATE	
EXHIBIT (P-5)			OPA2 - Communications and Electronics Equipment			NAVSTAR Global Positioning System (K47800)						Numerous See P5a		February 1995	
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE		FY94		TOTAL COST	FY95		TOTAL COST	FY96		TOTAL COST	UNIT COST		FY97	TOTAL COST
			UNIT COST	QTY		UNIT COST	QTY		UNIT COST	QTY		UNIT COST	QTY		
HARDWARE	B		18,250	18	328	18,250	17	310	18,250	25	456	18,250	26		476
Aircraft MAGR	A		1,600	14,300	22,880	1,300	14,500	18,850	1,200	14,000	16,800	1,200	14,000		16,800
Ground PLGR						4,000	500	2,000	4,000	1,280	5,120				
Air GPS															
Cards & Chips															
Aux Output Chips					39			30			58				60
Warrenty					45			35			67				70
Testing					749			666			152				200
Engineering Support															
Service Support Ctr					2,664			2,690			2,716				2,787
Gov In-House					1,600			1,646			1,662				1,678
Integ Eng					1,000			2,368			2,600				3,389
Engineering Change Orders					440			628			441				500
Documentation					420			200			200				200
Integrated Support Facility					200			400			200				200
Program Management Admin					1,430			1,430			1,430				1,430
Fielding					600			851			600				800
Program Totals				14318	32395		15017*	32104		15305*	32502		14026		31543
*Actual qtys to be bought based on recent DA DCSOPS direction															

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE				A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment										NAVSTAR GLOBAL POSITIONING SYSTEM (K47800)				February 1995	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL					
PLGR FY94	Rockwell International Cedar Rapids, IA	C/FFP	USAF	Jan 94	Jul 94	14,300	1600*	YES							
MAGR FY94	Rockwell Collins Cedar Rapids, IA	C/FPI	USAF	Mar 94	Jun 95	18	18,250	YES							
PLGR FY95	Rockwell International Cedar Rapids, IA	C/FFP	USAF	Jan 95	Jul 95	14,500	1300*	YES							
MAGR FY95	Rockwell Collins Cedar Rapids, IA	C/FPI	USAF	Mar 95	Jun 96	17	18,250	YES							
Air GPS FY95	TBS	TBS	USA	Jun 95	Sep 95	500	4,000	NO							
PLGR FY96	Rockwell International Cedar Rapids, IA	C/FFP	USAF	Jan 96	Jul 96	14,000	1200*	YES							
MAGR FY96	Rockwell Collins Cedar Rapids, IA	C/FFI	USAF	Mar 96	Jun 97	25	18,250	YES							
Air GPS FY96	TBS	TBS	USA	Jan 96	Apr 96	1,280	4,000	NO							
PLGR FY97	Rockwell International Cedar Rapids, IA	C/FFP	USAF	Jan 97	Jul 97	14,000	1200*	YES							
MAGR FY97	TBS	TBS	USAF	Mar 97	Jun 98	26	18,250	YES							

D. REMARKS:

*PLGR unit cost includes required accessories.

CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995	REPORT SYMBOL DD-COMP(AR)1092
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE Navstar Global Positioning System (K47800)	
CURRENT DEVELOPMENT AND TEST STATUS			
MAGR TYPE CLASSIFIED - LRP		SCHEDULE DATE	
CURRENT	LAST REPORTED	REASON FOR DELAY	
Mar 93	Not previously reported.		
ESTIMATED DATE OF APPROVAL FOR SERVICE USE Mar 95			
EQUIPMENT ITEM(S) TO BE REPLACED None			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED			
DEVELOPMENT CONTRACT INFORMATION PE:0604778A PROJ# D168 RDT&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR
Rockwell International, Collins Government Avionics Div	Cedar Rapids, Iowa		47.679
Magnavox	Torrance, California		23.476
Various Contractors			28.900
OTHER			53.050
TOTAL RDT&E FUNDING			153.105
REMARKS			
Combined Ground and Airborne Army RDT&E funding is shown above.			
DD Form 2443, JUL 88		P-1 SHOPPING LIST ITEM NO 23 PAGE NO OF	
		Page 4 of 7 Pages EXHIBIT P-19	

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BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE										(BC4001)	
Other Procurement, Army 2 - Communications and Electronics Equipment		Ground Command Post (GNDGP)										Total Program	
	Prior Years	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	To Complete			
QUANTITY													
COST (in Millions)	28.6	0	5.9	1.0	1.0	0.9	0.3	0	0	0		37.7	
Total (in Millions)	28.6	0	5.9	1.0	1.0	0.9	0.3	0	0	0		37.7	

DESCRIPTION:

Milstar Ground Command Post Terminals (GNDGP) - AN/FRC-181 (V1) (fixed) and AN/TRC-194 (V1) and (V2) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDGP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCNET operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of eight (8) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.

JUSTIFICATION:

Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) will be accepted by the Army for operation Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. The FY96 and FY97 funds will be utilized for Total Package Fielding (procurement of support items, special tools, repair parts, GFE, generators, etc), for fielding terminals at Fort Ritchie, MD; SHAPE, BE; and three terminals in Vaihingen, GE. These terminals will be operated and maintained by Army personnel to support CINC and NCA missions.

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1985

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

SMART-T - (SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINAL)

(BC4002)

Prior Years	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	To Complete	Total Program
QUANTITY										
COST (in Millions)			66.7	59.4	46.3	83.6	94.3	81.0		431.3

DESCRIPTION:

SMART-T is a new multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE) which is desperately needed, as was demonstrated in Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE line-of sight capability. These terminals will triple the battlefield capability with respect to command, control, and communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any Mil-Std-1582 B/C compatible payloads. A total of 52 Army Low Rate Initial Production (LRIP) terminals will be procured during FY96/97, leaving 157 to be procured with Full Scale Production options following Initial Operational Test and Evaluation in FY98.

JUSTIFICATION:

FY96 and FY97 funds procure fifty-two Army Selected Acquisition Review Council (ASARC) approved Low Rate Initial Production (LRIP) terminals required to support a corps. The Milstar satellite launches fully support the acquisition plan so the fullest on-orbit capability can be realized. SMART-T FY96 LRIP schedule insures that MDR capable ground terminals are operational upon the launch of the Milstar II satellite scheduled for FY99. The SMART-T will be the only fielded Milstar MDR capable terminal at the time of satellite launch.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment						SMART-T (Secure Mobile-Anti-Jam Reliable Tactical Terminal)				February 1995	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST*	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
SMART-T FY96	TBS	C/FP (LRIP-1)	CECOM	Mar 96	Mar 98	20	1,421.06	Yes	Yes	Sep 95	
FY97	TBS	C/FP Option (LRIP-2)	CECOM	Jun 97	Mar 99	32	1,263.25	Yes	Yes	Sep 95	
D. REMARKS:											

* The Unit Cost column represents Hardware Unit Cost (Total Hardware Cost divided by Quantity).

UNCLASSIFIED		DATE February 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE SMART-T (Secure Mobile Anti-Jam Reliable Tactical Terminal) (8C4002)			
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment					
CURRENT DEVELOPMENT AND TEST STATUS					
DEV TEST & EVAL (DT&E)		PLAN/ACTUAL		REASON FOR DELAY	
INITIAL OPER TEST & EVAL (IOT&E)		10FY96			
FOLLOW-ON OPER TEST & EVAL		40FY98			
AVAIL DATE OF PERFORMANCE SPECIFICATIONS		10FY00			
		10FY95			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE FEB 96					
EQUIPMENT ITEM(S) TO BE REPLACED The SMART-T program does not replace another; however, it does operationally displace the AN/TSC-85a and 93a (Ground Mobile Forces SNF terminals) at Echelons Corps and Below. The GMP displaced terminals will move to support Echelons Above Corps.					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED This equipment provides the first highly mobile, secure, anti-jam, medium data rate communications terminal.					
DEVELOPMENT CONTRACT INFORMATION P.E. 0303142A - D386/D2PT RDTEE FUNDING PROFILE (\$ IN MILLIONS)					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY 96 BY 97 BEYOND 8Y'S
Raytheon Corporation	Marlborough, MA	Operational Test Development Engrg Prototype Mfg	28.8 16.8	8.5 3.3	.2 5.0
Rockwell International	Richardson, TX	System/Proj Ngmt (Contr) Other - Contr - Govt	12.3 18.0 41.0	3.7 9.1 2.2	6.0 4.9 19.1 3.4
TOTAL RDTEE FUNDING			116.9	26.8	11.1* 27.5*
REMARKS SMART-T: Two competitive EMD contracts were awarded in Nov 92. Each contractor will produce 6 EMDs. Following development testing, a down selection will be made and one contractor will be selected to enter into Low Rate Initial Production in FY 96.					
* Includes Operational Test Funds (Project D2PT).					
DD Form 2443, JUL 88			P-1 SHOPPING LIST		Page 4 of 8 Pages
ITEM NO 25 PAGE NO OF			UNCLASSIFIED		EXHIBIT P-19

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement, Army 2 - Communications and Electronics Equipment		SCAMP (Block I) - (Single Channel anti-Jam Manportable Terminal)									
	Prior Years	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	To Complete	Total Program
QUANTITY											
COST (in Millions)				25.8	32.5	11.0	10.0	1.1	0		

DESCRIPTION:

The SCAMP Terminal will be a single channel, half duplex satellite terminal to be employed by units that require range extension for command and control communications. Block I will be used by CINC's and other high priority users to transmit and receive Intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP will have embedded COMSEC and TRANSEC. In addition to operation on Milstar satellites, the SCAMP will operate on all satellites which utilize the MIL-STD-1582C LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

JUSTIFICATION:

The SCAMP Block I program procures a two-year buy-out in FY96/97 of the Army's 150 Block I SCAMP terminals for a multiservice quantity of 312 terminals. Army Block I terminals are designated for CINC level users (i.e., FORSCOM, CINCEUR, CINCSOUTH, CINCPAC, etc.). The first Milstar LDR EHF frequency waveband satellite was successfully launched in Feb 94, with a second LDR launch expected in Jul 95. SCAMP Block I provides manportable EHF communications in support of the first two satellites.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE				SCAMP (BLOCK I) - Single Channel Anti-Jam Manportable Terminal				A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment		C. P-1 ITEM NOMENCLATURE				SCAMP (BLOCK I) - Single Channel Anti-Jam Manportable Terminal				February 1995	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST*	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
SCAMP FY96	TBS	C/FP	CECOM	Feb 96	Jun 97	57	177.10	Yes	Yes	May 95	
FY97	TBS	C/FP	CECOM	Jun 97	Nov 98	93	142.02	Yes	Yes		
D. REMARKS:											

* The Unit Cost column represents Hardware Unit Cost (Total Hardware Unit Cost divided by Quantity).

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P-1 Shopping List

Item No. 26

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Exhibit P-5a

UNCLASSIFIED		DATE February 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE SCAMP (Block 1) - (SINGLE CHANNEL ANTI-JAM MANPORTABLE TERMINAL) (UC4003)			
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment					
CURRENT DEVELOPMENT AND TEST STATUS					
CURRENT		LAST REPORTED		REASON FOR DELAY	
1096 3095		3095 1096		Terminated EMD Contract	
DEV TEST & EVAL (DT&E) PLAN/ACTUAL PLAN/ACTUAL AVAIL DATE OF PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE September 1997					
EQUIPMENT ITEM(S) TO BE REPLACED None.					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Extremely robust. Lower probability of intercept or detection.					
DEVELOPMENT CONTRACT INFORMATION P.E. 0303142A - D386/D2KT ROT&E FUNDING PROFILE (\$ IN MILLIONS)					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PY	CY95	BY 96 BY 97 BEYOND BY'S
		OPTEC Evaluations Development Engineering Prototype Mfg System/Project Mgmt(Contr) Other - Contr - Govt	15.8 6.8 8.2 15.4 37.9	.1	.3 2.9 46.6
TOTAL ROT&E FUNDING			84.1	.1	10.2 2.9 46.6
REMARKS: The Army Acquisition Executive (AAE) restructured the SCAMP Block 1 program on 26 Oct 94. A competitive Production strategy was approved on 15 Nov 94.					
• Includes Block II Engineering Feasibility Efforts.					
DD Form 2443, JUL 85		P-1 SHOPPING LIST ITEM NO 26 PAGE NO OF		UNCLASSIFIED Page 4 of 6 Pages EXHIBIT P-19	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASS		BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE MOD OF IN-SVC EQUIP (TACSAT)					(988417)		
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/FY 01		
COST(IN MILLIONS)	19.8	6.3	4.2	5.7	7.4	7.5	12.1/12.1		
<p>DESCRIPTION: The Ground Mobile Forces (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. The program will provide a tactical satellite communications capability to meet critical GMF Command, Control and Communication (C3) needs not satisfied by conventional terrestrial communications systems.</p> <p>Mod-In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. Modifications are approved through the following Materiel Change (MC):</p>									
MC NO.	TITLE		END ITEM						
1-84-07-0019	Multi-Channel Initial System (MCIS)		AN/TSC-85B/93B						
<p>JUSTIFICATION: The FY 96 and FY 97 funds will be used to procure Light Weight Quick Reaction Satellite Antenna's (LWQSA). The increased gain and mobility of the LWQSA will allow greater access to Defense Satellite Communications Systems (DSCS). This is in line with the continued upgrades of Army tactical satellite communications equipment.</p>									

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P-1 SHOPPING LIST
ITEM NO 27 PAGE NO 1 OF 7

Page 1 of 7 Pages
EXHIBIT P-40

MODIFICATION OF WEAPON SYSTEMS

MODIFICATION TITLE: MCIS LWQRSA, MC No. 1-84-07-0019 (BB8417)

MODELS OF SYSTEMS AFFECTED: AN/TSC-85B and AN/TSC-93B Tactical Satellite (TACSAT) Terminals.

DESCRIPTION: This Materiel Change Improvement Program consists of upgrades to improve performance of the Super High Frequency (SHF) Multichannel Initial System (MCIS) Terminals, AN/TSC-85B and AN/TSC-93B. The technical and operational requirements for the Army GMF program have been established by the Satellite Communications Qualitative Materiel Requirements (QMR) and the Ground Mobile Forces Satellite Communications (GMFSC) Program Plan as approved by the Assistant Secretary of Defense (C3I). The new Conus Based Power Projection Force is totally dependent on highly mobile, high capacity information transfer system such as the AN/TSC-85B/93B's. Even though the AJCM Terminal Fixes program has been canceled, enhancement of the MCIS terminals to meet critical C3I needs remain. A valid requirement exists for a Light Weight Quick Reaction Satellite Antenna (LWQRSA). The LWQRSA is a 20 foot or less antenna with a G/T of 26DB or more that is capable of being set-up and torn down in 90 minutes with a three person crew or, in 60 minutes or less by a crew of four. It will be used by selected Divisions, EAC's and contingency signal units to augment the AS-3036 eight foot antenna. The increased gain and mobility of the LWQRSA will allow greater access to DSCS Satellites, particularly the earth coverage antenna pattern and the fringe areas of the narrow coverage antenna patterns.

JUSTIFICATION: Funding in FY-96 and FY-97 will support the acquisition of Light Weight Quick Reaction Satellite Antennas. This is in line with the Army's continued upgrades of tactical satellite communication equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: No development required

FINANCIAL PLAN: (\$ in Millions)		FY95		FY96		FY97		FY98		FY99		FY00		FY01		IC		Total	
Qty	Prior \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Kit Quantity		2		12		12		12		12		6				CONT		56	
Installation Kits																			
Installation Kit Nonrecurring Equipment	142.9		4.1		3.6		3.6		3.6		3.6		4.4		6.3				
Equipment Nonrecurring Engineering Change Orders							1.0		1.0		0.7		3.4		2.7				
Data																			
Training Equipment	1.5						0.3		1.9		2.1		2.4		1.3				
Support Equipment																			
Other																			
Project Mgt Admin	4.8		0.4		0.4		0.5		0.5		0.6		0.6		0.7				
Fielding	1.3																		
Interim Contractor Support																			
Gov't/Contr Engineering	1.9		1.8		0.2		0.3		0.4		0.5		1.3		1.1				
Installation of Hardware																			
Total Installation Cost																			
Total Procurement Cost	152.4		6.3		4.2		5.7		7.4		7.5		12.1		12.1				207.7

METHOD OF IMPLEMENTATION: MWO

CONTRACT DATES: FY95; MAY 95

DELIVERY DATE: FY95; SEP 95

ADMINISTRATIVE LEADTIME: 2 Months

FY96; FEB 96

FY96; JUN 96

PRODUCTION LEADTIME:

FY97; FEB 97

FY97; JUN 97

4 Months

INSTALLATION SCHEDULE:

INPUT:

OUTPUT:

PY	FY95				FY96				FY97				FY98				FY99				FY00				FY01				IC	Total
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
0 (1)																									56					
0																									56					

NOTE: In August 1994 the Army terminated the Anti-Jam Control Modern Program. In FY 95 Acquisition of the Light Weight Quick Reaction Satellite Antenna will begin.

MODIFICATION INSTALLATION SUMMARY

DATE: February 1985

(TOA, Dollars in Millions)

<u>SYSTEM/MODIFICATION</u>	<u>FY 94</u>	<u>FY 95</u>	<u>FY 96</u>	<u>FY 97</u>	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>	<u>TOTAL</u>
Anti-Jam Control Modem	19.8*	0	0	0	0	0	0	0	19.8
Lightweight Quick Reaction Satellite Antenna	0	6.3	4.2	5.7	7.4	7.5	12.1	12.1	55.3
Total for Mod of In-Svc Equipment (TACSAT)	19.8*	6.3	4.2	5.7	7.4	7.5	12.1	12.1	75.1

* In August 1994 the Army terminated the AJCM Terminal Fixes Program.
In FY 95 the LWQRSA program will begin.

REPORTS / ROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE MSE MOD IN SERVICE		(881611)			
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01
COST (IN MILLIONS)	0.0	33.3	14.7	18.7	13.8	15.8	9.9 / 16.7
DESCRIPTION: The Mobile Subscriber Equipment (MSE) Modification in Service Line funds for high priority Echelons Corps and Below (ECB) system improvements.							
JUSTIFICATION: FY 96/97 continues the ECB portion of the Area Common User System-System Improvement Prog (ACUS-SIP). The ACUS is an area switched communications system. It is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corp and Below (ECB) Mobile Subscriber Equipment (MSE) System. The ECB portion was a non-developmental baseline system acquisition. Enhancement to systems, some unique to ECB, incorporate either through modification or redesign efforts, improvements in switching, transmission, network control and subscriber terminal systems. Enhancements within this ACUS-SIP will provide future interfaces between the ECB communications network and Joint or Combined Forces. FY 96/97 funds are also required to provide for the necessary Production Engineering support, Contractor Engineering support and Fielding as it relates to the ACUS-SIP.							
MODIFICATION TITLE	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 01
ECB Area Common User Sys-Sys Improvement Prog (ACUS-SIP)*	0.0	26.298	10.502	17.575	13.760	15.847	16.705
Fielding	-	-	-	-	-	-	-
Engineering Spt - Gov't/Contractor	-	3.470	4.181	1.112	-	-	-
Project Management Admin	-	2.158	-	-	-	-	-
Data Transfer Devices/Award Fee's	-	1.329	-	-	-	-	-
Total	0.0	33.255	14.683	18.687	13.760	15.847	16.705

*Estimates for fielding/engineering support for the ACUS-SIP will be provided when information becomes available.

REPORTS CONTROL SYMBOL DD-COMP(AR)1092	UNCLASSIFIED MODIFICATION OF WEAPON SYSTEMS	DATE February 1995
MODIFICATION TITLE: ECB AREA COMMON USER SYS-SYS IMPROVEMENT PROG (ACUS-SIP) (881611)		
MODELS OF SYSTEMS AFFECTED: NETWORK MANAGEMENT AND CONTROL, SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS		
DESCRIPTION/JUSTIFICATION: The ACUS-SIP is an area switched communications system. It is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Enhancements to systems, some unique to ECB, incorporate either through modification or redesign efforts improvements in switching, network control, transmission and subscriber terminal equipment. Enhancements within this ACUS-SIP will provide future interfaces between the ECB Communications Network and Joint or Combined Forces.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Not Applicable	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR
P-1 SHOPPING LIST ITEM NO 28 PAGE NO 2 OF 3 UNCLASSIFIED Page 2 of 3 Pages EXHIBIT P-3A		

MODIFICATION TITLE: ECB Area Common User System System Improvement Prog (ACUS-SIP) FINANCIAL PLAN (\$ IN MILLIONS)									
RD&E PROCUREMENT KIT QUANTITY INSTALLATION KITS INSTALLED EQUIPMENT ENGINEERING CHANGE ORDERS DATA GOVERNMENT ENGINEERING TRAINING EQUIPMENT SUPPORT EQUIPMENT INSTALLATION COST TOTAL PROCUREMENT COST	FY 94 & PRIOR	UNCLASSIFIED					EST COMPLETE	TOTAL	
		FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
	0.0	26.3	10.5	17.6	13.8	15.8	9.9	16.7	116.2
	0.0	26.3	10.5	17.6	13.8	15.8	9.9	16.7	226.8
METHOD OF IMPLEMENTATION: CONTRACTOR									
ADMIN LEAD TIME 2		MANUFACTURE LEAD TIME VARIOUS* * DEPENDANT UPON THE ENHANCEMENT USUALLY NO LESS THAN 12 MONTHS AND NO MORE THAN 24 MONTHS							
CONTRACT DATE:	FY 94	FY 95 DEC-MAR	FY 96 DEC-MAR	FY 97 DEC-MAR	FY 98 DEC-MAR	FY 99 DEC-MAR	FY 00 DEC-MAR	FY 01 DEC-MAR	FY 02 DEC-MAR
PRODUCTION DELIVERY DATE:	FY 94	FY 95 VARIABLE	FY 96 VARIABLE	FY 97 VARIABLE	FY 98 VARIABLE	FY 99 VARIABLE	FY 00 VARIABLE	FY 01 VARIABLE	FY 02 VARIABLE
INSTALLATION SCHEDULE:									
INPUT	1	2	3	4	1	2	3	4	5
FY 94									
FY 95									
FY 96									
FY 97									
OUTPUT									
FY 94									
FY 95									
FY 96									
FY 97									
P-1 SHOPPING LIST					UNCLASSIFIED				
ITEM NO 28 PAGE NO 3 OF 3					Page 3 of 3 Pages EXHIBIT P-3A				

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE COMMAND CENTER IMPROVEMENT PROG (BA8200)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (In Millions)	\$ 3.6	\$ 3.6	\$ 0.9	\$ 0.9	\$ 0.9	\$ 0.1	\$ 0.1	\$ 0.1	\$ 0.1
<p>DESCRIPTION: This budget line supports Commander in Chief (CINC) requirements for command center systems and upgrades necessary to exercise effective command and control capabilities during crisis and wartime operations, including the USCINCEUR Command Center System (UCCS) in support of CINCEUR and the Theater Automated Command and Control Information Management System (TACCIMS) in support of the Republic of Korea (ROK)/US Combined Forces Command.</p> <p>The UCCS provides essential C2 upgrades necessary for USEUCOM to exercise command and control of US Forces in the USEUCOM Area of Responsibility (AOR) in response to National Command Authority. This program has taken on increasing significance in light of the Unified Command Plan approved by the President in April 92, and the growing political and military activity within the AOR, such as events in Serbia, Croatia, Bosnia, Sarajevo, Somalia, and Nigeria. In addition UCCS is recognized by the Joint Staff and DISA as an important element of the Global Command and Control system and is recognized by the Army as an important element of the Army Global Command & Control System (GCCS).</p> <p>TACCIMS is the Commander-in-Chief/ Combined Forces Command (CINC/CFC) Command and Control (C2) system and supports both the Combined Forces Command and U.S. Forces Korea. TACCIMS provides an automated bilingual C2 system consisting of over 450 workstations and file servers throughout the Republic of Korea and Okinawa. Another part of the TACCIMS system is the bilingual multipoint secure Video Teleconferencing System that links the major subordinate commands and the Theater Decision Support System. TACCIMS directly supports the CINC during armistice, crisis, exercise, and the prosecution of war with critical elements of information to facilitate his campaign plan implementation.</p> <p>JUSTIFICATION: FY 96 and FY 97 funds will be used to provide engineering of the HQ USEUCOM Top Secret and Secret Local Area Networks to support GCCS integration, filling voids in near-term GCCS versions (e.g. Data Teleconferencing, Briefing and Display, Joint Task Force support, GCCS compliant new/unique functionality) and integration of EUCEM/European Theater Command Center Intel/Defense Message System/Information Mission Area and C2 support systems.</p> <p>COOPERATIVE AGREEMENTS: TACCIMS is a binational program between the Republic of Korea (ROK) and the United States. A Memorandum of Agreement (MOA) was signed by the two countries on 4 May 1987. The US share is 85 percent of the total cost of the program as defined in the MOA. The specific US responsibilities are to fund for and acquire the automated C2 system known as TACCIMS and to fund maintenance of the system up to Final Operational Capability (FOC). The ROK has the responsibility to fund and construct a new Command Center Seoul and a new third tunnel in the wartime headquarters known as Command Post Tango. These two command centers were completed in Dec 89 and are presently operational.</p>									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME COMMAND CENTER IMPROVEMENT PROG (BA8200)			C. MANUF. Numerous See 5a.		D. DATE February 1995			
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97				
			Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost		
EUCOM COMMAND CENTERS: System Engineering, Installation & Test Local Distribution System EUCOM Decision Support System Command & Control Interfaces Map Graphics Monitor & Control System Joint Task Force (JTF) Integration Briefing & Display System		A	1,000	1	1,000	1,000	1	1,000	300	1	300	300	
		A				310	1	310	200	1	200	200	
		A	255	1	255								
		A	160	1	160	200	1	200	170	1	170	178	
		A	172	1	172								
		A	100	1	100								
		A	275	1	275	300	1	300	150	1	150	150	
		A				205	1	205	100	1	100	100	
		TACCIMS: TACCIMS Video Spt Sys (TVSS) System Upgrade Relocation Work		A	776	1	776	800	1	800			
				A	900	1	900	623	1	623			
A						200	1	200					
TACCIMS = Theater Automated Command & Control Information Management System					3,638		3,638			920	928		
TOTAL													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE COMMAND CENTER IMPROVEMENT PROG (BA8200)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
EUCOM COMMAND CENTERS: System Engrg, Instl, & Test FY 94 FY 95 FY 96 FY 97	JPL	MIPR	NASA	MAR 94	SEP 94	1	1,000				
	JPL	MIPR	NASA	JAN 95	MAY 95	1	1,000				
	JPL	MIPR	NASA	DEC 95	APR 96	1	300	YES	NO		
	JPL	MIPR	NASA	DEC 96	APR 97	1	300	YES	NO		
Local Distribution System FY 95 FY 96 FY 97	JPL	MIPR	NASA	JAN 95	MAY 95	1	310				
	JPL	MIPR	NASA	DEC 95	APR 96	1	200	YES	NO		
	JPL	MIPR	NASA	DEC 96	APR 97	1	200	YES	NO		
EUCOM Decision Spt System FY 94	JPL	MIPR	NASA	DEC 93	SEP 94	1	255				
Command & Control Interfaces FY 94 FY 95 FY 96 FY 97	JPL	MIPR	NASA	DEC 93	SEP 94	1	160				
	JPL	MIPR	NASA	JAN 95	MAY 95	1	200				
	JPL	MIPR	NASA	DEC 95	MAY 96	1	170	YES	NO		
	JPL	MIPR	NASA	DEC 96	MAY 97	1	178	YES	NO		

D. Remarks:

JPL = Jet Propulsion Laboratory, Pasadena, CA
NASA = National Aeronautics Space Administration

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE COMMAND CENTER IMPROVEMENT PROG (BA8200)								
Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
MAP Graphics FY 94	JPL	MIPR	NASA	DEC 93	SEP 94	1	172				
Monitor & Control System FY 94	JPL	MIPR	NASA	DEC 93	SEP 94	1	100				
JTF Integration FY 94	JPL	MIPR	NASA	DEC 93	SEP 94	1	275				
FY 95	JPL	MIPR	NASA	JAN 95	MAY 95	1	300				
FY 96	JPL	MIPR	NASA	DEC 95	MAY 96	1	150	YES	NO		
FY 97	JPL	MIPR	NASA	DEC 96	MAY 97	1	150	YES	NO		
Briefing & Display System FY 95	JPL	MIPR	NASA	JAN 95	MAY 95	1	205				
FY 96	JPL	MIPR	NASA	DEC 95	MAY 96	1	100	YES	NO		
FY 97	JPL	MIPR	NASA	DEC 96	MAY 97	1	100	YES	NO		
TACCIMS: TVSS	VAR* CSC/BAH **	SS/FP C/FP #	CECOM CECOM	NOV 93 DEC 94	DEC 93 JAN 95	1 1	776 800	YES	NO		

D. Remarks:

TVSS - TACCIMS Video Support System

CSC - Computer Scientific Corporation, Eatontown, NJ

BAH - Booz Allen & Hamilton, Eatontown, NJ

JPL - Jet Propulsion Laboratory, Pasadena, CA

= Time & Materials (T&M)

JTF = Joint Task Force

NASA = National Aeronautics and Space Administration

* Multiple GSA contractors (including Video Corporation, Compression Labs, AT&T, Folsom, Inc.).

** Multiple awards/delivery orders/dates throughout FY.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)							A. DATE February 1995			
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE COMMAND CENTER IMPROVEMENT PROG (BA8200)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
System Enhancement FY 94	SRI International	C/FP #	CECOM	NOV 93	DEC 93	1	900			
FY 95	SRI International	C/FP #	CECOM	JAN 95	FEB 95	1	623			
Relocation Work FY 95	TBS	C/FP	CECOM	MAR 95	APR 95	1	200	YES	NO	

D. Remarks:

 SRI International , Menlo Park, CA

 # = Time & Materials (T&M)

REPORTS CONTROL SYMBOL DD-COM(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE SOUTHCOM C3 UPGRADE (BU4000)								
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST (In Millions)	0.0	0.0	11.4	5.0	0.0	0.0	0.0	0.0	0.0	
<p>DESCRIPTION:</p> <p>In accordance with the Panama Canal Treaty, SOUTHCOM Headquarters must relocate by CY 1999. This program supports the relocation requirement for establishment of the C4I communications infrastructure at the new location while continuing support to on-going mission requirements. There are 20 unique sub-systems which must be operational at the new location.</p> <p>JUSTIFICATION:</p> <p>FY 96 funds will be used to procure the non-secure switch, red switch, and technical control facility, all of which are long lead items required for the communications infrastructure. FY 97 funds will be used to procure a portion of the remaining sub-systems, i.e., the SOUTHCOM LAN, LAN Backbone options, and the Defense Simulation Internet.</p>										
DD Form 2454		P-1 Shopping List Item No. 30		Page No. 1 of 3		EXHIBIT P-40				

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME SOUTHCOM C3 UPGRADE (BU 4000)			C. MANUF. Numerous See 5a.		D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97			
			Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Total Cost	
Non-Secure Switch		A					6,239	1			6,239	
Red Switch		A					4,534	1			4,534	
Tech Control Facility		A					464	1			464	
Engineering		A					187	1			187	
SOUTHCOM LAN		A							771	1	771	771
LAN Backbone Options		A							1,797	1	1,797	1,797
Defense Simulation Internet		A							2,399	1	2,399	2,399
TOTAL											11,424	4,967

Page No.

2 of 3

Exhibit P-5 Weapon System Cost Analysis

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

B. APPROPRIATION / BUDGET ACTIVITY							C. P-1 ITEM NOMENCLATURE				A. DATE		
Other Procurement, Army 2 - Communications and Electronics Equipment							SOUTHCOM C3 UPGRADE (BU 4000)				February 1995		
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL			
Non-Secure Switch FY 96	GTE	C/FP	CECOM	NOV 95	JAN 97	1	6,239	YES	NO				
Red Switch FY 96	ESI	C/FP	DISA	NOV 95	JAN 97	1	4,534	YES	NO				
Tech Control Facility FY 96	VAR*	VAR*	CECOM	VAR*	NOV 96	1	464	YES	NO				
Engineering FY 96	SAIC	C/FP	ISC	OCT 95	OCT 95	1	187	YES	NO				
LAN FY 97	TBS	C/FP	CECOM	NOV 96	MAY 97	1	771						
LAN Backbone Options FY 97	TBS	C/FP	CECOM	NOV 96	MAY 97	1	1,797						
Defense Simulation Internet FY 97	TBS	C/FP	CECOM	NOV 96	JUL 97	1	2,399						

* Various contracts including IDIQ contract for matrix switch required to procure all components of the TCF.

D. Remarks:

GTE = Government Systems Corp, Needham Heights, MA
ESI = Electrospace Systems Inc., Dallas TX
SAIC = Science Applications International Corp, Sierra Vista, AZ

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM		P-1 NOMENCLATURE						
Other Procurement, Army 2 - Communications and Electronics Equipment				STANDARD THEATER ARMY COMMAND & CONTROL SYSTEM (STACCS) (BA8250)						
		FY84	FY85	FY86		FY87	FY88	FY89	FY90	FY01
QUANTITY										
COST	\$		\$	\$		\$	\$	\$	\$	
(In Millions)		5.7	12.1	8.6		15.3	15.6	19.6	10.1	8.7

DESCRIPTION: Army Global Command and Control System (AGCCS) is being implemented in accordance with the Global Command and Control System (GCCS) concept of Common Operating Environment (COE), the Army COE (ACOE), and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The AGCCS initiative is the result of the merger of three separate projects: Army WWMCCS Information System (AWIS), Standard Theater Army Command and Control System (STACCS), and the Echelon Above Corps (EAC) portion of the Combat Service Support Control System (CSCSS). The AWIS and STACCS organizations merged on 1 July 1984. A second merge will take place on 1 Oct 95 when AWIS, STACCS, and CSCCS (EAC) combine into a single PMO. The combined software development requirements of these three projects will be satisfied through a combined contract which was awarded in December 1984. The intent is to field an integrated command and control (C2) system that provides standard modular, system support and application support software capable of supporting a tailorable set of functional applications and compatible, integrated exchange of data, both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. AGCCS will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS) (vice: Component Commands), Army Commanders in Chief (CINCs), Army Joint Task Force (JTF) Commands and Components and Army elements within the Pentagon. The AGCCS will support all staff sections within a headquarters and all phases of conflict. The AGCCS will provide the Army's interface to the Joint GCCS program. AGCCS is the integration of software, hardware and communication architecture supporting strategic and tactical environments. In order to field the system, upgrades and additional workstations, Database Servers, Communications Equipment, Local Area Networks (LANs), and Fielding/Systems Engineering and Integration (SE&I) will be required.

- a. Common User Products are intelligent workstations and associated printers that are required for effective operation within the current C2 environment to facilitate the exchange of information between users and/or commands via a flexible communications network.
- b. The Database Server provides the foundation for standardized software and support needed for the development of Joint, Service, and command applications and modeling software.
- c. Local Area Network (LAN) is required to facilitate the exchange of secure intersite communications between users and devices located at AWIS/AGCCS facilities and also to facilitate the transmission/receipt of secure communications between AWIS/AGCCS sites over the AWIS/AGCCS intercomputer network system.

JUSTIFICATION:

JUSTIFICATION: This system will provide the linkage of the tactical command and control (C2) systems to the Global Command and Control System (GCCS). This will create a seamless C2 architecture for the commanders at all levels, from strategic to the foxhole, a common picture of the battlefield in terms of maneuver forces, intelligence, fire support, logistics, and air defense. This also includes access to Navy, Air Force and Marine C2 systems.

In FY98 continued hardware/software fielding will include U S Army Pacific (USARPAC), and initial fielding at 8th Army (Korea), and Southern Command (SOUTHCOM), Forces Command (FORSCOM), US Army Europe (USAREUR), and Headquarters Department of the Army (HQDA).

In FY97 hardware and software enhancements will be fielded to FORSCOM/ARCENT (Army Central Command), Army War College (AWC), Military Traffic Management Command (MTMC), and European Command (EUCOM).

Identification Code: A

APPROPRIATION/BUDGET ACTIVITY			BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P5-A)					DATE	1995	
Other Procurement, Army 2 - Communications and Electronics Equipment			P-1 ITEM NOMENCLATURE Standard Theater Army Command & Control System (STACCS)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTE BY	AWARD DATE	DATE OF FIRST DELIVER	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV/S REQ'D	IF YES, WHEN AVAIL- ABLE
1. PC Upgrades FY95	EDS, Plano TX	C/FP	Air Force	MAR 95	JUL 95	347	3,000	YES		
2. Sun SPARC 5 (Workstations) FY95 FY96 FY97	NPIC, Washington, DC NPIC, Washington, DC NPIC, Washington, DC	C/FP C/FP C/FP	CIA CIA CIA	MAR 95 DEC 95 DEC 96	JUL 95 APR 96 APR 97	41 700 750	\$12,000 \$12,000 \$12,000	YES YES YES		
3. Sun SPARC Center (1000) FY95 FY96 FY97	NPIC, Washington, DC NPIC, Washington, DC NPIC, Washington, DC	C/FP C/FP C/FP	CIA CIA CIA	MAR 95 DEC 95 DEC 96	JUL 95 APR 96 APR 97	2 4 5	\$309,000 \$309,000 \$309,000	YES YES YES		
4. Sun SPARC Center (2000) FY95 FY96 FY97	NPIC, Washington, DC NPIC, Washington, DC NPIC, Washington, DC	C/FP C/FP C/FP	CIA CIA CIA	MAR 95 DEC 95 DEC 96	JUL 95 APR 96 APR 97	1 1 2	\$469,000 \$469,000 \$469,000	YES YES YES		
5. Sun SPARC 20 FY95 FY96 FY97	NPIC, Washington, DC NPIC, Washington, DC NPIC, Washington, DC	C/FP C/FP C/FP	CIA CIA CIA	MAR 95 DEC 95 DEC 96	JUL 95 APR 96 APR 97	83 15 12	\$56,000 \$56,000 \$56,000	YES YES YES		
8. HP RISC 700 Series FY94	MILTOPE, MONTGOMERY AL	C/FP	CECOM	JAN 94	MAY 94	51	\$66,411	YES		
9. Other Comm Equip (Packets) FY94	TRW-W, MONTEREY, CA	C/FP	CECOM	JAN 94	MAY 94	31	\$46,190	YES		
D. REMARKS										

DD Form 2448-1, JUL 87

P-1 SHOPPING LIST
ITEM No. 31

[illegible]

FY 96/97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE Standard Theater Army Command and Control System (BA8250)												Date								
FISCAL YEAR 1997										FISCAL YEAR 1998										FISCAL YEAR 1999										L
CALENDAR YEAR 1997										CALENDAR YEAR 1998										CALENDAR YEAR 1999										A
O N D J F M A M J J A S										O N D J F M A M J J A S										O N D J F M A M J J A S										T
C O E A E A P A M J U U L										C O E A E A P A M J U U L										C O E A E A P A M J U U L										E
T V C N B R Y N L										T V C N B R Y N L										T V C N B R Y N L										P
R										R										R										R
HP RISC/CHS, FY94																														
SUN SPARC 20/NPIC, FY95																														
SUN SPARC 20/NPIC, FY96																														
SUN SPARC 20/NPIC, FY97																														
TOTAL										0 0 0 0 0 0 0 0 0 0										0 0 0 0 0 0 0 0 0 0										0
REMARKS										O N D J F M A M J J A S										O N D J F M A M J J A S										T
										C O E A E A P A M J U U L										C O E A E A P A M J U U L										E
										T V C N B R Y N L										T V C N B R Y N L										P

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement, Army 2 - Communications and Electronics Equipment		ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)									
	Prior Years	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	To Complete	Total Program
QUANTITY											
COST (In Millions)	352.5	37.0	9.5	20.0	10.3	9.8	51.7	54.7	54.7		600.2

DESCRIPTION: THE ARMY DATA DISTRIBUTION SYSTEM (ADDS) IS A COMMAND, CONTROL, AND COMMUNICATION (C3I) NETWORK CONSISTING OF THE ENHANCED POSITION LOCATION REPORTING SYSTEM (EPLRS) AND THE ARMY PORTION OF THE JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS). EPLRS IS A DIRECT OUTGROWTH OF THE ARMY/UNITED STATES MARINE CORPS (USMC) POSITION LOCATION REPORTING SYSTEM (PLRS) AND PROVIDES BATTLEFIELD COMMANDERS COMBAT INFORMATION ON THE POSITION OF THEIR FORCES IN ADDITION TO SUPPORTING THE MAJORITY OF THE DATA COMMUNICATIONS NEEDS OF THE MULTITUDE OF COMPUTERS TO BE FIELDED AS PART OF ARMY TACTICAL COMMAND AND CONTROL SYSTEM (ATCCS). JTIDS SUPPORTS THE UNIQUE DATA COMMUNICATIONS NEEDS OF VERY HIGH VOLUME USERS WITH INTER-SERVICE REQUIREMENTS.

THE ARMY IS FIELDING ATCCS TO AUTOMATE AND INCREASE THE EFFECTIVENESS OF THE FIVE BATTLEFIELD FUNCTIONAL AREAS (BFA): MANEUVER CONTROL, FIRE SUPPORT, AIR DEFENSE, INTELLIGENCE, AND COMBAT SUPPORT. ADDS IS ESSENTIAL TO SUPPORT TACTICAL OPERATIONS ON THE AUTOMATED BATTLEFIELD WITH RELIABLE, REAL -TIME , SECURE, JAM RESISTANT DATA COMMUNICATIONS AND POSITION LOCATION CAPABILITIES. IT HAS BEEN DESIGNED SPECIFICALLY TO MEET THE DATA COMMUNICATION REQUIREMENTS OF EMERGING COMPUTER AND SENSOR SYSTEMS.

JUSTIFICATION:

FY96

EPLRS: THE FY96 BUDGET WILL FINANCE THE FIELDING OF PRIOR YEAR HARDWARE PROCUREMENTS TO CONTINGENCY CORPS UNITS. THE BUDGET WILL ALSO PROVIDE FOR NEW EQUIPMENT TRAINING (NET), INTEGRATION , LIFE CYCLE SOFTWARE ENGINEERING (LCSE) AND PROGRAM MANAGEMENT SUPPORT.

FY97

EPLRS: THE FY 97 BUDGET WILL COMPLETE THE FIELDING OF PRIOR YEAR HARDWARE PROCUREMENTS TO CONTINGENCY CORPS UNITS. THE BUDGET WILL ALSO PROVIDE FOR NEW EQUIPMENT TRAINING (NET), INTEGRATION, LIFE CYCLE SOFTWARE ENGINEERING (LCSE) AND PROGRAM MANAGEMENT SUPPORT.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)				C. MANUF Numerous See P5a	D. DATE February 1995		
WEAPONS SYSTEM COST ELEMENTS		IDENT CODE	UNIT COST	FY94 QTY	TOTAL COST	UNIT COST	FY95 QTY	TOTAL COST	UNIT COST	FY97 QTY	TOTAL COST
Enhanced Position Location Reporting System (EPLRS)		A									
Hardware			51	1,816	8,332						
Signal Message Processors (SMP) - VHSIC											
NCS-E					1,175	284*	7	1,986			902
GFE/Maintenance								3,692			
Engineering Support:											
Contractor System Engineering					702	495		540			300
Government In-House					5,395	2,383		2,499			2,546
Peculiar Support Equipment					769						
Engineering Change Order					1,200			188			
(ECO's)											
Integration/Installation					2,589			700			945
Training					1,361	478		510			545
Life Cycle Software Engineering					1,520	1,600		1,420			1,685
Initial Production Facilities					540			546			
Testing					3,703			500			
Contractor Project Management					638						
Project Management					1,554	1,630		1,594			1,848
Administration											
Data					809	1,703		437			1,560
Fielding					6,691			5,356			
TOTAL PROGRAM					36,978	9,490		19,968			10,331
*Unit Cost have been rounded; exact Unit Cost can be found on P-5A											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE
Other Procurement, Army 2 - Communications and Electronics Equipment										February 1995
C. P-1 ITEM NOMENCLATURE										
ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)										
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
FY 93 ADDS-ENHANCED PLRS (EPLRS)	HUGHES AIRCRAFT FORREST MS	SS/FPI (OPT 3)	CECOM	May 93	Oct 94	515	40,218	YES	NO	
FY 94 SIGNAL MESSAGE PROCESSOR (SMP)	HUGHES AIRCRAFT FORREST MS	SS/FPI VHSIC	CECOM	May 94	Nov 95	1,816	4,588	NO	YES	Feb 96
FY 96 NET CONTROL STATION EPLRS (NCS-E)	HUGHES AIRCRAFT FORREST MS	SS/FPI	CECOM	Nov 85	May 97	7	283,714	NO	YES	Sep 95

D. REMARKS:

THE FY 94 FUNDING ALLOWS SIGNAL MESSAGE PROCESSOR (SMP) PROCUREMENT NECESSARY TO COMPLETE THE VERY HIGH SPEED INTEGRATED CIRCUIT (VHSIC) EFFORTS.
PRIOR YEAR PROCUREMENTS WILL BE RETOFTTED WITH VHSIC CAPABILITIES.

P-1														ITEM INVENTORY ARMY DATA DISTRIBUTION SYSTEM (ADDS)														(BU1400)														DATE FEBRUARY														1995																											
FISCAL YEAR														FISCAL YEAR														FISCAL YEAR														FISCAL YEAR														FISCAL YEAR																											
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FAC	MAN NAME & LOC	MIN	185	18X	REACHED
1	HUGHES AIRCRAFT	50	100	200	
	FOREST, MISSISSIPPI				
2	HUGHES AIRCRAFT	75	180	200	
	FOREST, MISSISSIPPI				
3	HUGHES AIRCRAFT				
	FOREST, MISSISSIPPI				

PROCUREMENT LEAD TIME				TOTAL
ADMIN		PRODUCTION		AFTER
PRIOR	AFTER	PRIOR	AFTER	1-OCT
1 OCT	1 OCT	1 OCT	1 OCT	
24	2	32	32	32
REORDER	0	20-26	20-26	20-26

REMARKS

*INCLUDES FY 93 AND PRIOR.

The lead time for the Signal Message Processor is 17 months. The "BAL DUE OCT 93" total reflects both the EPUUs and SMPs. The SMPs that are being procured in FY 94 are components for the 1816 EPUUs and are not separate end items.

PRODUCTION SCHEDULE (EXHIBIT P-21)										P-1 ITEM IDENTIFICATION ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)										DATE FEBRUARY 1995																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
L A T B R	S V C A	PROCUREMENT QUANTITY						ACCEP PRIOR OCT	BAL DUE OCT	FISCAL YEAR 96					FISCAL YEAR 97					CALENDAR YEAR 97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		FY 93	FY 94	FY 95	FY 96	FY 97	O			N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

REMARKS

• INCLUDES FY 93 AND PRIOR.

The Lead Time for the Signal Message Processor is 17 months.

The "BAL DUE OCT 93" total reflects both the EPUUs and SMPs.

The SMPs that are being procured in FY 94 are components for the 1816 EPUUs and are not separate end items.

PAGE 5 of 5

PROCUREMENT LEAD TIME				TOTAL	
ADMIN	LEAD TIME		PRODUCTION	AFTER	
	PRIOR 1 OCT	AFTER 1 OCT		1-OCT	
INITIAL	24	2	32	32	
REORDER	0	2	20-26	20-26	

FA	MAN NAME & LOC	MIN	185	MAX	REACHED
1	HUGHES AIRCRAFT	50	100	200	
	FOREST, MISSISSIPPI				
2	HUGHES AIRCRAFT	75	180	200	
	FOREST, MISSISSIPPI				
3	HUGHES AIRCRAFT				
	FOREST, MISSISSIPPI				

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASS		BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE					(BB1610)				
		MOBILE SUBSCRIBER EQUIPMENT (MSE)									
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01			
QUANTITY											
COST (IN MILLIONS)		42.8	0.0	3.5	6.7	6.0	5.8	5.0 / 4.2			
<p>DESCRIPTION: The Mobile Subscriber Equipment (MSE) Communications System is a fielded area radio communication system providing Corps and Division, mobile and stationary users the equivalent of automatic secure dial telephone service for both voice and data. MSE provides uninterrupted communication which enables commanders and staffs to exercise command and control from both mobile platforms and Command Posts which may be dispersed or massed, and requires frequent relocation due to enemy threat and conduct of battle.</p> <p>JUSTIFICATION: FY 96/97 funds are required for the Project Management Administration to support the day-to-day operations of the Project Managers Office, which includes salaries and travel in support of all existing contracts; Production Engineering to provide for the necessary government matrix personnel in direct support of the above mission; and Contractor Engineering Support to provide support to the Project Manager of a type not available within either Core or Matrix assets.</p>											
DD FORM 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page 1 of 3 Pages EXHIBIT P-40			
		ITEM NO 33		PAGE NO 1 OF 3							

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-6)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME MOBILE SUBSCRIBER EQUIPMENT (MSE)						C. MANUF Numerous See P5a		D. DATE February 1995		
WEAPONS SYSTEM COST ELEMENTS		IDENT CODE	UNIT COST	FY94 QTY	TOTAL COST	UNIT COST	FY95 QTY	TOTAL COST	UNIT COST	FY96 QTY	TOTAL COST	UNIT COST	FY97 QTY	TOTAL COST
1. PROJ MANAGEMENT ADMIN		-			3,147						2,200			2,100
2. GOVT/CONT ENGINEERING		-			4,008						1,277			3,155
3. AREA COMMON USER SYS- SYS IMP PROG (ACUS-SIP)		A			25,323									1,400
4. FIELDING		-			3,309									
5. NETWORK MANAGEMENT TERM		A			7,000									
				0	42,787		0	0		0	3,477		0	6,655

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE		A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment										MOBILE SUBSCRIBER EQUIPMENT (MSE)		February 1995	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL			
1. AREA COMMON USER SYS-SYS IMPROVEMENT PROG (ACUS-SIP) FY 1994	GTE TAUNTON, MA	SS/CPAF	CECOM	May 94	Sep 96	N/A	N/A	YES	NO				
FY 1997	GTE TAUNTON, MA	SS/CPAF	CECOM	Jan 97	May 98	N/A	N/A	YES	NO				
2. NETWORK MANAGEMENT TERMINAL FY 1994	GTE TAUNTON, MA	SS/FP	CECOM	Jan 94	Oct 95	N/A	N/A	YES	NO				
D. REMARKS: Quantity/Unit Cost not applicable. Systems are being procured as software enhancements/engineering change proposals (ECP's).													

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

SINGGARS FAMILY

(BW00008)

Prior Years	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	To Complete	Total Program
93,691	36,639	38,290	31,890	28,429	16,495	8,607	10,560	11,430	0	276,031
1,352.7	352.1	364.8	310.6	208.4	225.0	131.2	153.9	164.1		3,262.8

DESCRIPTION:

THE SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINGGARS) IS THE VHF-FM RADIO COMMUNICATIONS SYSTEM PROVIDING THE PRIMARY MEANS OF COMMAND AND CONTROL FOR INFANTRY, ARMOR, ARTILLERY, AND ARMY AVIATION UNITS. IT POSSESSES CAPABILITIES AND IMPROVEMENTS OVER THE 1960 TECHNOLOGY RADIOS IT REPLACES IN MANPACK, VEHICULAR, AND AIRBORNE CONFIGURATIONS. ITS FREQUENCY-HOPPING JAM RESISTANT CAPABILITY WILL OFFSET THE CURRENT THREAT OF JAMMING TECHNIQUES USED AGAINST THE EXISTING FAMILY OF FIXED FREQUENCY RADIOS. IT WILL ASSIST COMMANDERS IN CONDUCTING THE BATTLE ON THE MODERN BATTLEFIELD. SINGGARS IS USED IN SUCH SYSTEMS AS PATRIOT, M1A2 TANK IMPROVEMENT PROGRAM, AND APACHE.

JUSTIFICATION:

THE FY 96 PROGRAM WILL PROVIDE 18,953 GROUND RADIOS, 623 AIRBORNE RADIOS, AND 18,804 DATA TRANSFER DEVICES FOR FIELDING FORSCOM UNITS WITH SINGGARS AND FORCE PACKAGE 1 AND 2 UNITS WITH UPGRADED SINGGARS. THE FY 97 PROGRAM WILL PROVIDE 16,366 GROUND RADIOS, 623 AIRBORNE RADIOS, AND 24,893 DATA TRANSFER DEVICES AND ANCILLARY DEVICES FOR FIELDING FORSCOM UNITS WITH SINGGARS AND FORCE PACKAGE 1 AND 2 UNITS WITH UPGRADED SINGGARS.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

February 1995

B. APPROPRIATION/BUDGET ACTIVITY

C. P-1 ITEM NOMENCLATURE

Other Procurement, Army 2 - Communications and Electronics Equipment

SINGGARS GROUND (800500)

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	IF YES, WHEN AVAIL	SPEC REVIS REQD
FY94	ITT FT. WAYNE, IND.	C/FPAF	CECOM	Apr 94	Jun 95	12,379	9,231	YES	NO
FY94	GD TALLAHASSEE, FL	C/FPAF	CECOM	Apr 94	Aug 95	10,914	10,828	YES	NO
FY95	TO BE SELECTED	C/FPAF	CECOM	Mar 95	Jun 96	9,612	12,577	YES	NO
FY95	TO BE SELECTED	C/FPAF	CECOM	Mar 95	Aug 96	11,701	12,734	YES	NO
FY96	TO BE SELECTED	C/FPAF	CECOM	Mar 96	Jun 97	9,477	11,238	YES	NO
FY96	TO BE SELECTED	C/FPAF	CECOM	Mar 96	Aug 97	9,476	13,224	YES	NO
FY97	TO BE SELECTED	C/FPAF M-5(1)	CECOM	Mar 97	Jun 98	13,366	11,017	YES	NO

D. REMARKS:

The increase in unit costs in FY 95 is due to introduction of SIP (improved) radios.

PRODUCTION SCHEDULE (EXHIBIT P-21)														
P-1 ITEM NOMENCLATURE SINGARS GROUND (B00500)														
FISCAL YEAR 96 CALENDAR YEAR 96 FISCAL YEAR 97 CALENDAR YEAR 97														
AC S (N) V	PRODUCTION QUANTITY				ACCEP PRIOR				BAL DUE				DATE	
	93 PRIOR	FY 94	FY 95	FY 96	FY 97	FY 98	OCT	OCT	OCT	OCT	OCT	OCT	DATE	DATE
1 MC		4539					1512	3027						
1 N		135					44	91						
2 AF		485					160	325						
2 N		270					88	182						
1 MC			6446				0	6446						
1 N			262				0	262						
2 AF			211				0	211						
2 N			176				0	176						
2 NG			3150				0	3150						
1 MC			3236				0	3236						
1 N			193				0	193						
2 AF			220				0	220						
2 N			809				0	809						
TOTAL	0	5429	10245	4458	0	0	1804	18328	451	451	452	453	454	455

REMARKS

PROCUREMENT LEAD TIME				
ADMIN		PRODUCTION		TOTAL
PRIOR	AFTER	PRIOR	AFTER	
1 OCT	1 OCT	1 OCT	1 OCT	1 OCT
INITIAL	2	5	14	19
REORDER	2	5	14	19

FAC	MAN NAME & LOC	MIN	185	MAX	REACHED
1	FTT, FT. WAYNE, IND	550	1375	1780	
2	3D, TALLAHASSEE, FLA	550	1375	1780	

PRODUCTION SCHEDULE (EXHIBIT P-21)													
P-1 ITEM NOMENCLATURE													
SINGARS GROUND (800500)													
DATE FEBRUARY 95													
FISCAL YEAR 99													
CALENDAR YEAR 99													
CALENDAR YEAR 98													
CALENDAR YEAR 97													
FAC NO.	S	V	C	93	PRIOR	FY 94	FY 95	FY 96	FY 97	FY	ACCEP	BAL	DUB
											PRIOR	OCT	OCT
1	A			53200							53200	0	
2	A			21100							21100	0	
1	A			12379							12379	0	
2	A			10914							10914	0	
3	A					9612					9612	0	
4	A					11701					11701	0	
3	A					9477					3156	6321	789
4	A					9476					1578	7898	789
5	A										0	13366	
1	AF	1500									1500	0	
1	RC	3000									3000	0	
1	MC	9800									9800	0	
1	NG	4500									4500	0	
2	NG	500									500	0	
1	N	1300									1300	0	
TOTAL	94800	23293	21313	18953	13366	0	144240	27585					

PAC	MAN NAME & LOC	MIN	185	MAX	REACHED
1	ITT, FT. WAYNE, IND	550	1375	1790	
2	GD, TALLAHASSEE, FLA	550	1375	1790	
3	FBS	550	1375	1790	
4	FBS	550	1375	1790	
5	FBS	550	1375	1790	

PROCUREMENT LEAD TIME				TOTAL	
ADMIN		PRODUCTION		TOTAL	
LEAD TIME		LEAD TIME		LEAD TIME	
PRIOR	AFTER	PRIOR	AFTER	PRIOR	AFTER
1 OCT	1 OCT	1 OCT	1 OCT	1 OCT	1 OCT
INITIAL	2	5	14	19	19
REORDER	2	5	14	19	19

REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

Feb 1995

C. P-1 ITEM NOMENCLATURE
SINGARS AIRBORNE (J30500)

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY.	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
FY94	ITT FT. WAYNE, IND	SS/FFP	CECOM	Mar 94	Jun 95	926	14,906	YES	NO	
FY95	ITT FT. WAYNE, IND	SS/FFP/OPT	CECOM	Mar 95	Jun 96	926	15,922	YES	NO	
FY96	ITT FT. WAYNE, IND	SS/FFP/OPT	CECOM	Mar 96	Jun 97	623	16,242	YES	NO	
FY97	ITT FT. WAYNE, IND	SS/FFP/OPT	CECOM	Mar 97	Jun 98	623	16,815	YES	NO	

D. REMARKS:

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-6)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME BATTLEFIELD ELECTRONICS COMM SYS (BECS)				C. MANUF Numerous See P5a		D. DATE February 1985		
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	\$ UNIT COST	FY84 QTY	\$K TOTAL COST	\$ UNIT COST	FY85 QTY	\$K TOTAL COST	\$ UNIT COST	FY86 QTY	\$K TOTAL COST	\$ UNIT COST	FY87 QTY	\$K TOTAL COST
1. HARDWARE	A	20	200	4,024									
LIGHTWEIGHT COMPUTER UNIT	-	619	20,000	12,386	696	8,529	5,936	727	16,685	12,130	727	22,092	16,061
DATA TRANSFER DEVICE	-			343			1,036			747			785
2. GOVT ENGINEERING	-			58			58			70			74
3. DOCUMENTATION	-			585			592			985			1,045
4. FIELDING	-												
5. LRIP DTD UPGRADE	-				133	22,452	2,992						
6. PRODUCTION DTD UPGRADE	-				50	62,083	3,104						
UNIT COSTS HAVE BEEN ROUNDED EXACT UNIT COSTS CAN BE FOUND ON P5A													
THE P1 QUANTITY HAS NOT BEEN UPDATED TO REFLECT THE LATEST PROJECTIONS.													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1996

C. P-1 ITEM NOMENCLATURE

BATTLEFIELD ELECTRONICS COMM SYS (BECS)

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
1. LIGHTWEIGHT COMPUTER UNIT FY 1994	SAIC MACLEAN, VA	C/FP/OPT	CECOM	Mar 94	Sep 94	200	20,100	YES	NO	
2. DATA TRANSFER DEVICE FY 1994	ALLIED SIGNAL TOWSON, MD	C/FP/OPT	NSA	Mar 94	May 95	20,000	619,250	YES	NO	
FY 1995	ALLIED SIGNAL TOWSON, MD	C/FP/OPT	NSA	Mar 95	May 96	8,529	696,000	YES	NO	
FY 1996	TBS	C/FP	NSA	Mar 96	May 97	16,685	727,000	YES	NO	
FY 1997	TBS	C/FP/OPT	NSA	Mar 97	May 98	22,092	727,000	YES	NO	

D. REMARKS:

REPORTS CENTER SYMBOL DC-COF-16611092		UNCLASSIFIED		PRODUCTION SCHEDULE		DATE February 1995																															
APPROPRIATION / MODEL ACTIVITY Other Procurement: Communications and Electronics Equipment		P-1: ITEM DESCRIPTION BATTLEFIELD ELECTRONICS COMM SYS (MCS)		FISCAL YEAR 95		FISCAL YEAR 96																															
FACILITY NO	S U A	FISCAL YEAR 94												FISCAL YEAR 95												FISCAL YEAR 96											
		CALENDAR YEAR 94												CALENDAR YEAR 95												CALENDAR YEAR 96											
PROGRAM QUANTITY		ACTED FOR		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10	
TOTAL MONTHLY PRODUCTION		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521		0 68521			
1	LOU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
2	OTD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			

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UNCLASSIFIED

[illegible]

Date: 1 January 1994

MULTIYEAR PROCUREMENT CRITERIA

Program: SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS)

The procurement will procure 63,461 Receiver/Transmitters and other items for the Army (72,326 for all of DOD) during the five years FY 97 through FY 2001 in a single multiyear contract.

CRITERIA

1. Benefit to the Government. Estimated cost savings of \$66.3 million, or 10% of Army contract costs, are forecasted. The current version of SINCGARS replaces the obsolete AN/VRC-12 radio. The SINCGARS provides combat net radios to the soldier with VHF-FM frequency hopping voice and data communications for primary tactical command and control.

a. Savings and Cost Avoidance: There are two primary sources of savings:

Vendor Procurement	\$51.4M
Inflation	\$14.9M
Total	\$66.3M

Vendor Procurement: By contracting for five years of material instead of in annual increments, significant savings in material costs can be achieved, since the contractor can enter into agreements with his suppliers to procure material in more economic order quantities.

Inflation. Inflation savings result from the contract being awarded during the first year of the term, with the costs being averaged over the five year period. This minimizes the effects of "out-year" costs.

Exhibit MYP-1 Multiyear Procurement Criteria

(Page 1 of 3)

b. Impact on Industrial Base.

Improved Competition. The firm fixed price limited competitive multiyear SINCGARS Ground production program is a follow-on to the limited competitive SINCGARS ground production program. The multiyear program will buy out the remaining Army Authorized Objective (AAO) of approximately 63,000 radios (72,000 for all DOD). Level III drawings will be available at the end of this procurement for the lifetime support of the fielded radios. A multiyear procurement is required to provide economic order quantities sufficient to sustain a manufacturer for the final buyout of the SINCGARS program. Insufficient quantities remain to be procured to sustain two manufacturers.

Enhanced Investment. Previous government investment in facilitization will significantly reduce nonrecurring capital costs.

Improvement in Vendor Skill Levels. The ability for contractors, subcontractors, and vendors to procure materials in quantities that exceed annual end item production requirements will provide the government with a better competitive price. Items such as cables, installation kits, and antennas will continue to be procured through a separate acquisition thereby providing work to many vendors.

Training Program. The two contractors (first and second source) for SINCGARS have acquired a substantial knowledge base in radio communications that is evidenced in their ability to incorporate system improvements to the current version of SINCGARS. An approved multiyear program will enable the winning source to continue to maintain their existing trained workforce. Multiyear contracting will provide sufficient production quantities to be built to sustain production skills.

Progress Payment Changes. Multiyear procurement will allow for 90% progress payments. This would reduce contractor investment risk and provide incentive to subcontractors and vendors.

Use of vendor multiyear contracts. The proposed multiyear program for SINCGARS would be a five year buyout and demonstrate the commitment of the Army to replace the remaining obsolete AN/VRC-12 radios for Force Package J and 2 units. This program will provide the ability for contractors and vendors to procure materials in advance and provide the government with a better competitive price.

Increased Production Capability. A five year multiyear program will allow the contractor to sustain production capability for the current DOD requirement and for meeting the Army's future needs.

(Page 2 of 3)

2. Stability of Requirement. To complete the Authorized Army Objective (AAO), the Army needs to procure approximately 63,000 additional radios, with other service requirements bringing the total to over 72,000 for DOD. Any delay in this program will result in the continued use of obsolete VRC-12 radios which have poor reliability and are rapidly becoming unsupportable due to technical obsolescence.
3. Stability of Funding. The Department of the Army has mandated that all AN/vrc-12 radios will be replaced; therefore, the risk that funding will not be stable is low.
4. Stable Configuration. The SINGGARS radios produced by GD and ITT are in rate production. At the start of this procurement delivery, production will have been ongoing for five years for GD and seven years for ITT. The configuration is stable and is being produced at the rate of 1,000+ radios per month from both producers.
5. Degree of Cost Confidence. A limited competitive contract was awarded to the two sources in April 1994 for approximately 28,000 radios. Based on this award there is a high cost confidence for the SINGGARS for future work. There are two more single year limited competitive acquisitions planned before the multiyear program begins.
6. Degree of Confidence in Contractor Capability. There is high confidence in the ability of the two contractors to produce and deliver the SINGGARS, as demonstrated by continuous high rate production currently in progress.

ACQUISITION STRATEGY COMPARATIVE SUMMARY

(\$ in Millions)

SINCGARS

ANNUAL
CONTR
63461

MYP
ALTERNATE
63461

NR units

Total Contract Price

\$660.05

\$593.77

Cancellation Ceiling

0

0

\$ Cost Avoidance Over Annual

\$66.27

% Cost Avoidance Over Annual

10.0

Risk Related Factors

- Requirement Stability

LOW

- Funding Stability

LOW

- Config Stability

LOW

- Cost Confidence

LOW

<u>Quantity</u>	<u>11-11</u>	<u>11-12</u>	<u>11-13</u>	<u>11-14</u>	<u>11-15</u>	<u>11-16</u>	<u>11-17</u>
<u>Annual Program</u>	16366	16495	8600	10600	11400	63461	
End Item	218.938	220.862	142.072	170.474	183.755	936.101	
Less Advance Funding P-1 Line Item	0	0	0	0	0	0	
Net Request	218.938	220.862	142.072	170.474	183.755	936.101	
Advanced Funding	0	0	0	0	0	0	
Total Annual Cost	218.938	220.862	142.072	170.474	183.755	936.101	
<u>Multiyear Program</u>							
End Item	226.75	224.632	123.308	143.859	151.278	869.827	
Less Advance Funding	0	0	0	0	0	0	
Net Request	226.75	224.632	123.308	143.859	151.278	869.827	
Advanced Funding							
(For FY 97)	0						
(For FY 98)	0	0					
(For FY 99)	0	0	0				
(For FY 00)	0	0	0	0			
Total	0	0	0	0	0	0	
Total Multiyear Cost	226.75	224.632	123.308	143.859	151.278	869.827	

Savings A "+" sign should be used when the multiyear cost is less than the annual cost and a "-" sign when the multiyear cost is greater than the annual cost.

<u>Outlays</u>	<u>FY 97</u>	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>	<u>FY 06</u>	<u>TOTAL</u>
Annual	21.237	92.579	147.521	161.776	165.206	159.846	103.384	50.804	22.724	11.024	936.101
Multiyear	21.995	95.483	149.136	155.468	149.257	139.35	88.699	42.444	18.918	9.077	869.827
Savings	-0.758	-2.904	-1.615	6.308	15.949	20.496	14.685	8.36	3.806	1.947	66.274

Exhibit MYP-3 Total Program Funding Plan

Quantity	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
16366	16495	86	10600	11400	63461	

Annual Program

Gross	144.982	150.262	99.572	125.974	139.255	660.045
Less A.P.	0	0	0	0	0	0
Net	144.982	150.262	99.572	125.974	139.255	660.045
Advanced Procurement	0	0	0	0	0	0
Total Annual Cost	144.982	150.262	99.572	125.974	139.255	660.045

Multiyear Proposal

Gross	152.794	154.032	80.808	99.359	106.778	593.771
Less A.P.	0	0	0	0	0	0
Net	152.794	154.032	80.808	99.359	106.778	593.771

Advanced Funding

(For FY 97)	0
(For FY 98)	0
(For FY 99)	0
(For FY 00)	0
Total	0

Total Multiyear Cost

152.794	154.032	80.808	99.359	106.778	593.771
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Savings A "+" sign should be used when the multiyear cost is less than the annual cost and a "-" sign when the multiyear cost is greater than the annual cost.

Outlays	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	TOTAL
Annual	14.063	61.695	99.524	111.317	117.581	116.454	76.233	37.796	17.028	8.354	660.045
Multiyear	14.821	64.599	101.139	105.008	101.631	95.958	61.548	29.437	13.222	6.408	593.771
Savings	-0.758	-2.904	-1.615	6.309	15.95	20.496	14.685	8.359	3.806	1.946	66.274

Outlays

FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 FY 04 FY 05 FY 06 TOTAL

Annual Proposal

Then Year Dollars	21.237	92.579	147.521	161.776	165.206	159.846	103.384	50.804	22.724	11.024	936.101
Constant Dollars	19.44	82.28	127.295	135.527	134.375	126.223	79.26	37.816	16.422	7.736	766.374
Present value	19.220	79.521	120.260	125.159	121.305	111.384	68.370	31.887	13.536	6.233	696.874

Multiyear Proposal

Then Year Dollars	21.995	95.483	149.136	155.468	149.257	139.35	88.699	42.444	18.918	9.077	869.827
Constant Dollars	20.134	84.861	128.689	130.242	121.402	110.038	68.001	31.594	13.672	6.368	715.001
Present value	19.906	82.015	121.577	120.278	109.594	97.102	58.658	26.640	11.269	5.131	652.170

Difference

Then Year Dollars	-0.758	-2.904	-1.615	6.308	15.949	20.496	14.685	8.36	3.806	1.947	66.274
Constant Dollars	-0.694	-2.581	-1.394	5.285	12.973	16.185	11.259	6.222	2.750	1.368	51.373
Present value	-0.686	-2.494	-1.317	4.881	11.711	14.282	9.712	5.246	2.267	1.102	44.704

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE EAC COMMUNICATIONS					(BA1010)	
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01	
COST(IN MILLIONS)	50.2	49.5	5.9	4.3	5.9	5.7	7.0 / 7.0	
DESCRIPTION: The Echelons Above Corps(EAC) Communications Network, formerly known as Tri-Services Tactical Communications (TRI-TAC), features automatic switching, digital transmission, network control and subscriber terminal equipment. The EAC Communications Network is typically deployed in tactical theater level applications, providing a link between the strategic (fixed plant) systems and the MSE Network at ECB. In addition, joint and combined force interfaces are provided at EAC, for interoperability with other services and allied networks. The EAC Communications Network plays a key role in linking the National Command Authority (NCA) with the front-line fighting forces. It supports the theater level command and control process, which is responsible for directing, maintaining and resupplying lower level fighting forces. The EAC Communications Network is digital, secure, highly flexible and contains features that deal with link or functional element outages and traffic overload. It also makes provision for rapid movement of users and provides voice/data communications on an automatic, discrete addressed, fixed directory basis using flood search routing. A typical EAC Communications Network is comprised of Modal Control Switches, Message Switches, Small Extension Mode Switches (SENS) (AN/TTC-48), Large Extension Mode Switch (LENS) (AN/TTC-46), Network Management Center (NMC), Communications System Control Element (CSCE) (AN/TYQ-30[V] 1,2 and AN/TYQ-31) and Downized Transmission Assemblies (AN/TRC-173/4/5(-)-138A/B, AN/TRC-170[V] 2,3).								
JUSTIFICATION: FY96/77 funds are required for Project Management Administration to support the day-to-day operations of the Project Managers office, which includes salaries and travel in support of all existing contracts; Production Engineering Support to provide for the necessary government matrix personnel in direct support of the above mission; Contractor Engineering Support to provide support to the Project Manager of the type not available within either the Core or Matrix assets; Fielding/Interim Contractor Support to field and support Active, Army Reserve and National Guard units new EAC Comm equipment and Sustain EAC Comm equipment that is already in the field.								
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 36 PAGE NO 1 OF 4			UNCLASSIFIED Page 1 of 4 Pages EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-6)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME EAC COMMUNICATIONS				C. MANUF Numerous See P5a		D. DATE February 1995	
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	\$		\$K		FY95		FY96		FY97		TOTAL COST
		UNIT COST	FY94 QTY	TOTAL COST	UNIT COST	FY95 QTY	TOTAL COST	UNIT COST	FY96 QTY	UNIT COST	FY97 QTY	TOTAL COST
1. HIGH MOBILITY DGM ASSEM	A	255,072	138	35,200			2,800					2,282
2. PROJ MANAGEMENT ADMIN	-			2,800			1,800					1,000
3. ENGINEERING SUPPORT	-			880			3,100					961
CONTRACTOR				700			4,367					1,500
GOVERNMENT				5,279								
4. FIELDING/RETROFIT	-			200			20,400					
5. INTERIM CONTRACTOR SPT	A			3,900								
6. AREA COMMON USER SYS-				970								
SYS IMP PROG (ACUS-SIP)				300								
7. TOAD REPAIR/SET ASSEMBLY	-											
8. DOWNSIZE PROGRAM	A											
			138	50,229			49,510		0		0	4,258
												5,898

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-6A)

A. DATE

February 1995

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

EAC COMMUNICATIONS

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
1. HIGH MOBILITY DGM ASSEM FY 1994	LAGUNA IND ALBUQUERQUE, NM	SS/FP	CECOM	Aug 94	Apr 95	138	255,072	YES		
2. AREA COMMON USER SYS-SYS IMPROVEMENT PROG (ACUS-SIP) FY 1994	GTE TAUNTON, MA	SS/OPT	CECOM	May 94	Sep 95	N/A	N/A	YES		
	GTE TAUNTON, MA	SS/OPT	CECOM	Jul 94	Sep 95	N/A	N/A	YES		
	ESI RICHARDSON, TX	SS/OPT	CECOM	Jun 94	Sep 94	13	53,848	YES		
	GTE TAUNTON, MA	SS/OPT	CECOM	Mar 95	Mar 96	N/A	N/A	YES		
				May 95	May 96	N/A	N/A	YES		
3. DOWNSIZE PROGRAM FY 1994	LAGUNA IND ALBUQUERQUE, NM	SS/FP	CECOM	Aug 94	Mar 95	N/A	N/A	YES		
FY 1995	LAGUNA IND ALBUQUERQUE, NM	SS/FP	CECOM	Mar 95	Mar 96	N/A	N/A	YES		

D. REMARKS:

Quantity/Unit Cost not applicable. Systems are being procured as software enhancements/engineering change proposals/non-recurring engineering efforts and studies.

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 2
Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

MOD OF IN SVC EQUIP (EAC COMM)

(881600)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01
QUANTITY							
COST(IN MILLIONS)	11.3	11.7	11.6	10.4	13.2	13.4	27.8 / 27.8

DESCRIPTION: The Modification Of In Service Equipment (Echelons Above Corps Communications) (EAC COMM) line, funds the materiel change programs (MCP)/enhancements to existing/fielded systems.

JUSTIFICATION: FY96/7 continues the EAC portion of the Area Common User System-System Improvement Prog (ACUS-SIP). The ACUS is an area switched communications system. It is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. Enhancements to systems, some unique to EAC, incorporate either through modification or redesign efforts, improvements in Network Management Control, Circuit Switching, Data Switching, Terminals and Transmission Systems. FY96/7 funds are also required to provide for the necessary Production Engineering Support, Contractor Engineering Support and Fielding/Interim Contractor Support.

MODIFICATION TITLE

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
EAC Area Common User Sys-Sys Improvement Prog (ACUS-SIP)*	5.312	4.616	3.623	9.330	13.181	13.357	27.839	27.842
Fielding	4.110	4.600	5.600	-	-	-	-	-
Interim Contractor Support	-	.600	.600	-	-	-	-	-
Engineering Support - Government	-	.874	.814	.750	-	-	-	-
Engineering Support - Contractor	-	1.000	1.000	.364	-	-	-	-
AN/TTC-TYC-39/FOTS Efforts	1.875	11.690	11.637	10.444	13.181	13.357	27.839	27.842
Total	11.297							

*Estimates for fielding/engineering support for the ACUS-SIP will be provided when information becomes available.

REPORTS CONTROL SYMBOL
DD-COMP (1092)

UNCLASSIFIED
MODIFICATION OF WEAPON SYSTEMS

DATE February 1995

MODIFICATION TITLE:

EAC AREA COMMON USER SYS - SYS IMPROVEMENT PROG (ACUS-SIP)

(881600)

MODELS OF SYSTEMS AFFECTED: NETWORK MANAGEMENT AND CONTROL, CIRCUIT SWITCHING, DATA SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS

DESCRIPTION/JUSTIFICATION: The ACUS is an area switched communications system. It is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Some of the enhancements included in this SIP will enable mobile subscribers to operate at EAC as they do at ECB and will make a provision for rapid movement of users. Enhancements to systems, some unique to EAC, incorporate either through modification or redesign efforts, improvements in Network Management and Control, Circuit Switching, Data Switching, Terminals and Transmission Systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PLANNED
MONTH/YEAR

ACTUAL
MONTH/YEAR

P-1 SHOPPING LIST

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UNCLASSIFIED

Page 2 of 4 Pages

EXHIBIT P-3A

**MODIFICATION TITLE: EAC Area Common User System-
System Improvement Prog (ACUS-SIP)
FINANCIAL PLAN (\$ IN MILLIONS):**

ROT&E
 PROCUREMENT
 KIT QUANTITY
 INSTALLATION KITS
 INSTALLATION KITS NONRECURRING
 INSTALLED EQUIPMENT
 INSTALLED EQUIPMENT NONRECURRING
 ENGINEERING CHANGE ORDERS
 DATA
 GOVERNMENT ENGINEERING
 TRAINING EQUIPMENT
 SUPPORT EQUIPMENT
 INSTALLATION COST

TOTAL PROCUREMENT COST

METHOD OF IMPLEMENTATION:CONTRACTOR
ADMIN LEAD TIME
2

**MANUFACTURE TIME
VARIOUS***

***DEPENDANT UPON THE ENHANCEMENT USUALLY NO LESS THAN 12 MONTHS AND NO MORE THAN 24 MONTHS**

FY 94 APR-JUN

DEC-MAR

FY 94	VARIABLE
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[illegible]

FY 94

FY 95

FY 96

26 A3

INPUT

FY 94

FY 95

FY 95

FY 95

FY 95

P-1 SHOPPING LIST

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Page 3 of 4 Pages

EXHIBIT P-3A

REPORTS-CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET					DATE FEBRUARY 1995
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT		P-1 ITEM NOMENCLATURE TAC RADIO (FREQUENCY HOPPING MULTIPLEXER)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	(BA1205) FY 00	
QUANTITY				700	1400	1100			
COST(IN MILLIONS)				24.8	32.9	27.0			
DESCRIPTION: THE SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINGARS) USES FREQUENCY HOPPING AS AN ELECTRONIC COUNTER MEASURES (ECCH) MODE OF OPERATION. THE TAC RADIO (FREQUENCY HOPPING MULTIPLEXER) WILL ALLOW UP TO FOUR VERY HIGH FREQUENCY-FREQUENCY MODULATION (VHF-FM) RADIOS IN THE ECCH MODE TO OPERATE USING ONE MOBILE OR STATIONARY ANTENNA SYSTEM. IT WILL IMPROVE THE PHYSICAL PROFILE AND REDUCE SETUP AND TEARDOWN TIME FOR COMMAND POST ANTENNAS AND REDUCE COSITE INTERFERENCE.									
JUSTIFICATION: THE FY 96 PROGRAM OF 700 AND THE FY 97 PROGRAM OF 1,400 UNITS ARE TO SUPPORT FORCE PACKAGE 1, AND WILL IMPROVE SURVIVABILITY BY DECREASING TARGETABILITY AND DETECTABILITY, AS WELL AS REDUCING EMPLACEMENT/DISPLACEMENT TIMES.									

DD Form 2454, JUL 88

P-1 SHOPPING LIST
 ITEM NO. **38** PAGE NO 1 OF 7

UNCLASSIFIED
 Page 1 of 7 Pages
 EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME TACTICAL RADIO (BA1205) (FREQUENCY HOPPING MULTIPLEXER)		C. MANUF FRON		D. DATE February 1985	
WEAPONS SYSTEM COST ELEMENT	IDENT CODE	FY84		FY85		FY86		FY87	
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY
1. HARDWARE	B					30 *	700	20,745 21 *	1,400
2. NONRECURRING PRODUCTION								667	
3. ENGINEERING CHANGES						1,204		1,270	
4. DATA						869		202	
5. CONTRACTOR ENGINEERING						947		968	
6. GOVERNMENT ENGINEERING						371		396	
TOTAL							700	24,803	1,400
									32,88

* Unit costs have been rounded; exact unit costs can be found on P-5A.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE February 1995

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE		TACTICAL RADIO (BA1205) (FREQUENCY HOPPING MULTIPLEXER)		A. DATE				
Other Procurement, Army 2 - Communications and Electronics Equipment										
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
FY96	XETRON	SS/FFP	CECOM	Mar-96	Aug 97	700	29,635	NO	NO	
FY97	XETRON	SS/FFP	CECOM	Mar-97	Apr 98	1,400	21,464	NO	NO	
D. REMARKS:										

UNCLASSIFIED		DATE FEBRUARY 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE TACTICAL RADIO (BA1205) (FREQUENCY HOPPING MULTIPLEXER)			
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT		(BA1205)			
CURRENT DEVELOPMENT AND TEST STATUS					
SCHEDULE DATE					
CURRENT		LAST REPORTED		REASON FOR DELAY	
SEP 94					
NOV 94					
JAN 98					
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE 4Q FY 95					
EQUIPMENT ITEM(S) TO BE REPLACED					
TD-1288/VRC + TD-1289/VRC					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED THE CURRENT MULTIPLEXERS ARE FOR SINGLE CHANNEL OPERATION ONLY. THE FHUX IS AUTOMATICALLY TUNED AND FOR SINGLE CHANNEL AND FREQUENCY HOPPING MODE USE.					
DEVELOPMENT CONTRACT INFORMATION PE 64805 PROJECT D488 RDT&E FUNDING PROFILE (\$ IN MILLIONS)					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1
XETRON	CINCINNATI, OHIO	TD-1456/VRC			
TOTAL RDT&E FUNDING			13	5	4
					8
REMARKS PART OF D488 WILL BE USED FOR THIS PROGRAM IN FY 96, REMAINDER TO BE USED BY CECOM RDEC.					
DD Form 2443, JUL 88		P-1 SHOPPING LIST ITEM NO 38 PAGE NO 4 OF 7		UNCLASSIFIED Page 7 of 7 Pages EXHIBIT P-19	

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET				DATE	
DD-COMP(ARI) 1092						FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
Other Procurement, Army 2 - Communications and Electronics Equipment		C-E CONTINGENCY FIELDING EQUIP (BA5210)					
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
COST (In Millions)	12.3	8.5	5.1	2.6	2.5	1.6	3.0
<p>DESCRIPTION: This line is required to fund the fielding costs associated with a variety of communications-electronics (C-E) systems and efforts not identifiable to a current major system hardware line. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET), and First Destination Transportation (FDT). TPF efforts include validation of the Materiel Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and hand-off of all required equipment and materiel to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed/supported equipment. FDT costs are those associated with the shipping of various C-E equipment from the contractor to the depot.</p>							
ELEMENTS OF COST		(\$ IN MILLIONS)					
FIELDING:							
TPF							
Battlefield Communications							
Conversions							
Misc. C-E Non-Major System Fieldings							
NET							
Satellite Systems							
Ground Communications							
Misc. C-E Non-Major Systems							
FDT, Various C-E Non-Major Systems							
TOTALS	12.325	8.470	5.108	2.613	1.055	1.017	0.075
<p>JUSTIFICATION: The primary efforts to be funded in FY96/97 are TPF/NET for C-E equipment requirements for the conversion of selected units. Funds will activate multiple Brigades with MSE and TRI-TAC capabilities. These conversions are restructured IAW a downsized force structure. 17,000 DA directed Combat Net Radios from Europe, Korea and USARPAC will be fielded to FORSCOM Active Army, National Guard and Army Reserve Units. Non-ICOM NCGARS Radios will also be fielded to selected units. NET training efforts include requirements for the MCS/AB-1309 system. The BCR process will deliver, under the TPF concept, complete fully training systems to a force structure emphasizing a right-sized power projection capability for dual intensity conflict regions. These funds will ensure that critical round-out signal units are equipped for the mobile digitized battlefield with GO-TO-WAR readiness.</p>							
DD Form 2454	P-1 Shopping List	Page No.	EXHIBIT P-40				
	Item No. 39	1 of 1					

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		FOR OFFICIAL USE ONLY BUDGET ITEM JUSTIFICATION SHEET										DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Comm and Electronics Equipment		P-1 ITEM NOMENCLATURE TSEC - INFORMATION SYSTEM SECURITY										(TA0600)	
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01					
COST(IN MILLIONS)	56.9	13.0	11.1	11.1	13.1	11.3	6.4	7.5					
<p>DESCRIPTION: Funds the Army's Information Systems Security (INFOSEC) Program (ISSP). The ISSP provides INFOSEC to include communication security (COMSEC), cryptosecurity, transmission security, emission security, and computer security (COMPUSEC) equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive or national security related sensitive information. Prevents exploitation through interception, unauthorized electronic access, or related technical intelligence threats. The ISSP ensures authenticity, confidentiality, integrity, protection and availability of information and systems which generate, store, process, transfer, or communicate information of use to an adversary.</p> <p>JUSTIFICATION: FY 96/97 funds will buy:</p> <p>Army Key Management System (AKMS) equipment, the Army portion of the National Electronic Key Management System (EKMS) a "national priority" program developed to eliminate the inherent human intelligence threats of processing and handling paper key that provides the random or pseudorandom variable used to encrypt and decrypt data and voice communications. AKMS will deny our adversaries access to our key by electronically generating and distributing key for Army supported Commanders-in-Chief of two JCS organizations, removing paper key from all strategic and tactical Army users of INFOSEC and increase flexibility and reduce response time required for cryptoneeting procedures and receipt of keying material from 180 days to less than 2 days. Equipment included in the AKMS program is the Data Transfer Device (DTD), AN/CYZ-10, Key Processor (KP) or KOK-22R, AKMS Workstation, AKMS Software, Message Transfer Agent, and ancillaries.</p> <p>Secure Telephone Equipment (STE), also known as the Combined User Terminal (CUT) or Secure Tactical Strategic Voice Terminal (STSVT) will replace the KY-68 and a host of other COMSEC systems. The uniqueness of this system is its use of FIREFLY technology that will reduce operator/user burdens by making INFOSEC transparent to soldiers, minimize number of vectors needed to be held by Data Transfer Devices by long term vector storage, reduce handling requirements, and simplify compromise recovery. Will increase systems security by eliminating netting of "unique" electronic keys and provide solutions for TOP SECRET/Special Intelligence subscribers to Mobile Subscriber Equipment and Echelon's above Corps. The STE resolves the problems of secure interface of strategic and tactical units and systems and provides for direct links into the commercial world communications. The STE is a digital system capable of operating in new evolving digitized communications, the planned information highway, and is compatible with the Department of Defense's 200,000 to 300,000 analog versions of the Secure Telephone Units III and NATO equivalent systems. The purchase of the STE will push secure battlefield communications into the 21st Century by increasing the speed and volume of information that can be delivered to the soldier in a secure but transparent mode.</p>													
IDENTIFICATION CODE: A													

DD Form 2454, JUL 88

ITEM NO 40

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Page 1 of 1 Pages

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION, BUDGET ACTIVITY & TITLE NO.: Other Procurement, Army 2 - Comm and Electronics Equipment			B. WEAPON: MODEL, SERIES, POPULAR NAME: TBSC - INFORMATION SYSTEM SECURITY			C. MANUFACTURER: NAME, PLANT, CITY/STATE: Various, see P-5A and P-5I			D. DATE: Month/Year: February 1996	
WEAPON SYSTEM COST ELEMENTS		ID CODE	FY-94		FY-95		FY-96		FY-97			
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	TOTAL COST
1. MINTERM KY-99A		A	2459	2135	5677							
2. AIRTERM KY-100 WITH REMOTE CONTROL UNIT (RCU)		A	1803	17722	31953							
3. AIRTERM KY-100 WITH REMOTE CONTROL UNIT (RCU)		A	36	13720	494	204	13720	2799				
4. DATA TRANSFER DEVICE (DTD), AN/CYZ-10		A	14104	509	7179				4172	509	2124	4432
5. KOK-22R		A				220	18600	4092				1501
6. KOK-22R		A				219	13000	2847	417	13000	5421	
7. AKMS SOFTWARE		A				310	2000	620	546	500	273	
8. AKMS WORKSTATION		A							150	10500	1575	
9. COVER FOR KOK-22R		A							856	2000	1712	
10. HXK-57 WIRELINE ADAPTER		A	538	2400	1290							708
11. HXK-57 WIRELINE ADAPTER		A	226	2251	509							
12. HYP-57 POWER SUPPLY		A	4746	103	489							
13. Z-AU BATTERY CASE		A	9702	25	241							
14. MINTERM TECH DATA		A			24							
15. MINTERM CONVERSION TO KY-99A		A	2033	1200	2439							
16. MINTERM CABLE		A	100	100	10							
17. KY-57/58 MOD 7		A	20356	19	387							
SUB TOTAL:					50,503			10,358			11,105	6,501

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

DATE: Month/Year:
February 1995

**C. MANUFACTURER: NAME,
PLANT, CITY/STATE:**
Various, see P-5A and P-21

**B. WEAPON: MODEL, SERIES,
POPULAR NAME:
TSEC - INFORMATION SYSTEM
SECURITY**

A. APPROPRIATION, BUDGET ACTIVITY & TITLE NO.:
Other Procurement, Army 2 - Coiner and Electronics Equipment

WEAPON SYSTEM COST ELEMENTS									
ID CODE	FY-94			FY-95			FY-97		
	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
18. KG-194A	427	2096	895						
19. KG-194/194A MOI) 3	1889	359	678	3421	359	1340			
20. ANTIVIRUS SOFTWARE									
21. COMSEC MANAGEMENT CONTROL SYSTEM (CMCS)									
22. CANWARE									
23. ST-34 (COMSEC TEST SET)	34	2745	936	33	2590	852			
24. SECURE TELEPHONE UNIT III (STU III)	70	1945	136						
25. SECURE TELEPHONE UNIT III (STU III)	292	1298	379						
26. SECURE TELEPHONE UNIT III (STU III)	1	1549	2						
27. SECURE TELEPHONE EQUIPMENT (STE) TACTICAL									
28. FIELDING									
SUB TOTAL PAGE TWO:			2592		42				
BALANCE FORWARD FROM PAGE ONE:			6,817		2,631				
SUB TOTAL PAGE ONE:			5863		1058				
			59,863		10,380				
TOTAL:			54,868		12,969				

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment										A. DATE: February 1996	
C. P-1 ITEM NOMENCLATURE: TSEC - INFORMATION SYSTEM SECURITY											
COST ELEMENT FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQUIRED	IF YES, WHEN AVAILABLE	
MINTERM KY-99A											
FY-94	ITT, NUTLEY, NJ	C/FFP-OPTION 1	NSA	FEB 94	SEP 95	2459	2135	YES	NO		
AIRTERM W/RCU											
FY-94	ITT, NUTLEY, NJ	SS/FFI	NSA	MAR 94	AUG 95	1883	1772	YES	NO		
FY-94	ITT, NUTLEY, NJ	SS/FFI-OPTION	NSA	MAR 94	AUG 96	34	13729	YES	NO		
FY-95	ITT, NUTLEY, NJ	SS/FFI-OPTION	NSA	JAN 95	AUG 96	204	13729	YES	NO		
DTD, AN/CYZ-10											
FY-94	BENDIX, MD	C/FFI-OPTION	NSA	JAN 94	FEB 94	19765	599	YES	NO		
FY-94	BENDIX, MD	C/FFI-OPTION	NSA	MAR 94	JAN 95	3339	599	YES	NO		
FY-94	TBS	C/FFI	NSA	OCT 95	NOV 95	4172	599	YES	NO		
FY-97	TBS	C/FFI	NSA	MAR 97	MAR 98	8797	599	YES	NO		
KOK-22R											
FY-95	M. MARIETTA, NJ	C/FFPM-202	NSA	JAN 95	JAN 97	228	18600	YES	NO		
FY-95	M. MARIETTA, NJ	C/FFP-OPTION	NSA	MAR 95	MAR 97	219	13900	YES	NO		
FY-96	M. MARIETTA, NJ	C/FFP-OPTION	NSA	MAR 96	MAR 97	417	13900	YES	NO		
FY-97	M. MARIETTA, NJ	MIPR	NSA	MAR 97	MAR 97	85	18600	YES	NO		
D. REMARKS: NATIONAL SECURITY AGENCY (NSA), COMSEC UTILITY PROGRAM (CUP)											

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment										TSEC - INFORMATION SYSTEM SECURITY	
C. P-1 ITEM NOMENCLATURE:											
COST ELEMENT FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQUIRED	IF YES, WHEN AVAILABLE	
AKMS SOFTWARE											
FY-95	M. MARIETTA, NJ	C/FFPM-2(2)	NSA	JAN 95	JAN 96	310	2000	YES	NO		
FY-96	M. MARIETTA, NJ	C/FFP-OPTION	NSA	JAN 96	JAN 97	546	500	YES	NO		
AKMS WORKSTATION											
FY-96	TBS	MIPR	CECOM	MAR 96	SEP 96	150	10500	YES	NO		
FY-97	TBS	MIPR	CECOM	MAR 97	SEP 97	75	10500	YES	NO		
COVER FOR KOK-22R											
FY-96	NSA	MIPR	NSA	MAR 96	MAR 97	856	2000	YES	NO		
HYX-57 WIRELINE ADAPTER											
FY-94	SECURE COM, CA	C/FFP	NSA	JUN 94	JUN 95	558	2400	YES	NO		
FY-94	SECURE COM, CA	C/FFP-OPTION	NSA	JUN 94	JUN 95	226	2251	YES	NO		
HVP-57 POWER SUPPLY											
FY-94	SECURE COM, CA	C/FFP-OPTION	NSA	JUN 94	JUN 95	4746	100	YES	NO		
Z-AIJ BATTERY CASE											
FY-94	SECURE COM, CA	C/FFP-OPTION	NSA	JUN 94	JUN 95	9702	29	YES	NO		
MINTERM CONVERSION TO KY-99A											
FY-94	ITT, NUTLEY, NJ	C/FFP-ADD ON	NSA	JUN 94	JUN 95	2058	1200	YES	NO		
D. REMARKS: NATIONAL SECURITY AGENCY (NSA), COMSEC UTILITIY PROGRAM (CUP) U.S. ARMY COMMUNICATIONS ELECTRONICS COMMAND (CECOM)											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment				C. P-1 ITEM NOMENCLATURE:				TSEC - INFORMATION SYSTEM SECURITY			
COST ELEMENT FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQUIRED	IF YES, WHEN AVAILABLE
KY-57/58 MOD 7 (SEE REM. RKS)											
FY-94		NSA, MD	MIPR	NSA CUP	FEB 94	FEB 94	20356	19	YES	NO	
KG-194A											
FY-94		GROUP TECH, FL	C/FTP-OPTION	NSA	FEB 94	FEB 95	227	2006	YES	NO	
FY-94		GROUP TECH, FL	MIPR	NSA	FEB 94	FEB 94	200	2006	YES	NO	
ST-34 (COMSEC TEST SET)											
FY-94		GE, CAMDEN, NJ	MIPR	NSA CUP	MAR 94	MAR 94	34	27345	YES	NO	
FY-95		GE, CAMDEN, NJ	MIPR	NSA CUP	MAR 95	MAR 95	33	25200	YES	NO	
SECURE TELEPHONE EQUIPMENT III											
FY-94		MOTOROLA, AZ	C/FTP-OPTION	NSA	JUN 94	DEC 94	70	1945	YES	NO	
FY-94		AT&T, NC	C/FTP-OPTION	NSA	JUN 94	DEC 94	252	1208	YES	NO	
FY-94		NSA, MD	MIPR	NSA	JUN 94	JUN 94	1	1549	YES	NO	
SECURE TELEPHONE EQUIPMENT											
FY-97		TO BE SELECTED	C/FTP	NSA	MAR 97	MAR 98	1727	2500	YES	NO	

D: REMARKS: NATIONAL SECURITY AGENCY (NSA), COMSEC UTILITY PROGRAM (CUP)

U.S. ARMY COMMUNICATIONS ELECTRONICS COMMAND (CECOM)

KY-57/58 MOD 7, AND KG-194/194A MOD 3 ARE IN A JOINT NSA/ARMY DEPOT AND ARE DELIVERED ON AWARD DATE.

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092										FOR OFFICIAL USE ONLY										DATE February 1995																																																																					
P-1 ITEM NOMENCLATURE TSEC - INFORMATION SYSTEM SECURITY										P-1 SHOPPING LIST										DD Form 2445, JUL 87																																																																					
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Comm and Electronics Equipment										P-1 ITEM NOMENCLATURE TSEC - INFORMATION SYSTEM SECURITY										(1A0600)																																																																					
PROGRAM QUANTITY										FISCAL YEAR 97										FISCAL YEAR 98										FISCAL YEAR 99																																																											
S E R V I C E										CALENDAR YEAR 97										CALENDAR YEAR 98										CALENDAR YEAR 99																																																											
FACILITY NO										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																																																											
1 1 2 2										EA A 10765 3339 4172 8707										EA A 10765 3339 4172 8707										EA A 10765 3339 4172 8707																																																											
TOTAL MONTHLY PRODUCTION										18276 8707										18276 8707										18276 8707																																																											
FACILITY NO										MANUFACTURERS NAME & LOCATION										PRODUCTION RATES										MONTHS TO REACH MAX AFTER 0 DAY										ADMIN LEAD TIME										REMARKS																																							
1										ITT, NUTLEY, NJ										MINIMUM 500										1-B-5 2000										12										PRIOR 1 OCT 4										TOTAL AFTER 1 OCT 4										AN/CYZ-10 MULTISERVICE CONTRACT: PRODUCTION REPRESENTS ARMY PORTION ONLY.																			
2										TO BE SELECTED										MINIMUM 250										1000										12										INITIAL 4										4																													

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE TERRESTRIAL TRANSMISSION (BU1900)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	0.0	0.9	9.6	1.3	1.3	1.3	1.5	1.5

DESCRIPTION: This budget line supports the Department of Defense approved program to integrate digital operations within the Pacific and European Theater. The architecture of the Defense Information Infrastructure will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theater. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The program supports force projection through technology insertion and evolutionary changes. The program will utilize emerging technological developments to capitalize on digital information systems throughout the Worldwide Defense Information Infrastructure (DII). The theater Commanders-in-Chief, require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been defined in the Extended Korea Improvement Program (EKIP) by the Defense Information Systems Agency (DISA). The EKIP is a DISA managed program to strategically improve the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems during periods of stress. This program also supports command and control communications networks serving the Commander-in -Chief, United States Forces and United Nations Command, Korea, and Commander-in -Chief, US Forces, Japan. The modernization of communications systems is essential for wartime capabilities in the Pacific staging areas of Korea and Japan.

The Digital European Backbone (DEB) and DII Spain/Italy Reconfiguration (DSIR) Programs realign the DII in Europe to comply with mandates of the conventional forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. The DII must be reconfigured as U.S. forces are withdrawn or reassigned and military facilities are returned to German control. Alignments convert manpower intensive stations to unattended operations through contractor maintenance teams. This program utilizes assets that are recovered from sites closed in prior years to replace operating systems which are no longer logistically supportable. Systems are secured through bulk encryption devices.

Systems/programs supported by this program include the European Telephone System, Defense Switched Network and Defense Data Network. The program objectives support the Conventional Forces Europe effort through the application of remote operations, engineering the recovery of available assets and their rehabilitation for use in other segments of the network, and the cost savings achieved through judicious use of manpower and resources. The US Army is tasked to reconfigure selected Army sites for rehabilitation, return to the theater and installation at new sites as a replacement item for analog equipment. This provides a significant cost avoidance through reuse of capital equipment.

REPORTS CONTROL SYMBOL DD-COM(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE TERRESTRIAL TRANSMISSION (BU1900)				
(Continuation)					
<p>JUSTIFICATION: The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity, and reconstitution capabilities of communications in Korea. FY 96 funding is required for engineering necessary to define an architecture and produce specifications required to acquire an enhanced network element management system. Funding will support near-term improvements of network element management systems, e.g. ACORN (a transmission & monitoring control system) and Digital Patch and Access System (DPAS). FY 96 funds also support implementation of C4 Korean Initiatives as approved by JCS. (Project details are contained in classified documents pertaining to the Extended Korea Improvement Program (EKIP)). FY 97 funding is required to acquire the first phase of the enhanced network management system.</p> <p>The DEB Phase IV objectives will reduce the Army force structure through replacement of manpower intensive facilities, the reconfiguration of the DCS in support of the announced base closures, and reduce the costs associated with the European Defense Switched Network. The implementation of the DEB program will affect the Defense Information Infrastructure capabilities by improving the compatibility across operating systems and the ability to transmit larger volumes of data. Funds are required in FY 96 and FY 97 to: move 5th Signal Command from Worms to Mannheim, GE; insert a new DII station at Hanau to service units relocated from Frankfurt, Germany; to complete DEB IV upgrades into Italy; continue to insert system monitor and control enhancements on a segment basis; and respond to force reductions through engineering and translocation of DII facilities as required.</p>					
DD Form 2454	P-1 Shopping List Item No. 42	Page No. 2 of 6	EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME TERRESTRIAL TRANSMISSION (BU1900)						C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		FY 97		FY 97	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
WEAPON SYSTEM COST ELEMENTS													
EUROPE:													
Engineering, Furnish, Install, & Test (EFI&T) Staging Support	A					75	1	75		50	1	50	1
Reutilization of Recovered Assets Complete DEB IV Transalpine	A					72	1	72		VAR	VAR	VAR	VAR
DEB IV Hanau Radio / Mux / PTF Engr	A					40	1	40					
DEB IV Donnersberg/Mannheim M/W Seg	A					220	1	220					
DEB IV Hanau-Feldberg Tower Design	A					110	1	110					
DEB IV Transmission Remoting & Monitor Control (TRAMCON) Replacement	A					VAR	VAR	361		VAR	VAR	VAR	VAR
Army Maintenance Supply Fac (AMSF) Spt	A					15	1	15					
Relocate DEB IV Hannau/Feldberg Segment	A									550	1	550	
Digital Radio and Multiplex Acquisition (DRAMA) Replacement	A											VAR	VAR
Relocate Nuremberg Segment	A											500	1
PACIFIC:													
Network Element Manager Improvements	A									VAR	VAR		198
Network Management System Engineering	A									VAR	VAR		125
Network Management System - Phase I	A											358	1
C4 Korean Initiatives	A									VAR	VAR		
TOTAL								893				8,344	9,596

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

TERRESTRIAL TRANSMISSION (BU1900)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
EUROPE:										
EFI&T Staging Support FY 95	IN-HOUSE	MIPR	AMC EUR	DEC 94	JAN 95	1	75			
FY 96	IN-HOUSE	MIPR	AMC EUR	DEC 95	JAN 96	1	50	YES	NO	
FY 97	IN-HOUSE	MIPR	AMC EUR	DEC 96	JAN 97	1	55	YES	NO	
Reutilization of Recov Assets FY 96	TOAD	WR	CECOM	JAN 96	MAY 96	VAR**	VAR**	YES	NO	
FY 97	TOAD	WR	CECOM	JAN 97	MAY 97	VAR**	VAR**	YES	NO	
Complete DEB IV Transalpine FY 95	VAR*	VAR*	VAR***	JAN 95	MAR 95	1	72			
DEB IV Hanau Radio/Mux/Engr FY 95	IN-HOUSE	MIPR	ISEC	MAR 95	MAY 95	1	40	YES	NO	
DEB IV Donnersberg/ Mannheim M/W Segment FY 95	VAR*	VAR*	VAR***	JAN 95	MAR 95	1	220			
DEB IV Hanau-Feldberg Tower Design FY 95	EDE	MIPR	5TH SIG CMD	FEB 95	MAY 95	1	110	YES	NO	

D. Remarks:

- * Material/services provided by TOAD, USAF, 5th Signal Command, and Community Directorate of Engineering & Housing. Funds issued by MIPR or PWD.
- ** Site specific.
- *** Acquisition of materials/services are provided from in-house assets and resources or obtained from a variety of contractors by the Depots, 5th Sig. Cmd., CECOM, or USAF.

WR = Work request

EDE = European District Engineers

DEB = Digital European Backbone

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

TERRESTRIAL TRANSMISSION (BU1900)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
DEB IV TRAMCON Replacmnt FY 95 FY 96 FY 97	VAR* VAR* VAR*	VAR* VAR* VAR*	VAR*** VAR*** VAR***	APR 95 APR 96 APR 97	DEC 95 JAN 97 JAN 98	VAR** VAR** VAR**	VAR** VAR** VAR**	YES YES YES	NO NO NO	
Army Maintenance Supply Facility (AMSF) Support FY 95	IN-HOUSE	MIPR	5TH SIG CMD	JAN 95	JAN 95	1	15			
Relocate DEB IV Hannau/ Feldberg Segment FY 96	VAR*	VAR*	VAR***	DEC 95	JAN 96	1	550	YES	NO	
DRAMA Replacement FY 97	VAR*	VAR*	VAR***	DEC 96	JAN 97	VAR**	VAR**	YES	NO	
Relocate Nuremberg Segment FY 97	VAR*	VAR*	VAR***	DEC 96	JAN 97	1	500	YES	NO	

D. Remarks:

* Material/services provided by TOAD, USAF, 5th Signal Command, and Community Directorate of Engineering & Housing. Funds issued by MIPR or PWD.

** Site specific.

*** Acquisition of materials/services are provided from in-house assets and resources or obtained from a variety of contractors by the Depots, 5th Sig. Cmd., CECOM, or USAF.

DRAMA = Digital Radio and Multiplex Acquisition

DEB = Digital European Backbone

TRAMCON = Transmission Remoting and Monitor Control

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE
B. APPROPRIATION / BUDGET ACTIVITY										A. DATE
Other Procurement, Army 2 - Communications and Electronics Equipment										February 1995
C. P-1 ITEM NOMENCLATURE										
TERRESTRIAL TRANSMISSION (BU1900)										
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
PACIFIC: Network Element Mgrs Imprvm. FY 96	IN-HOUSE	MIPR	ISEC	OCT 95	JAN 96	VAR**	VAR**	YES	NO	
Network Mgmt Sys Engineering FY 96	IN-HOUSE	MIPR	ISEC	OCT 95	MAR 96	VAR**	VAR**	YES	NO	
Network Mgmt Sys - Phase I FY 97	TBS	C/FP	USAISC	NOV 96	FEB 97	1	358	YES	NO	
C4 Korean Initiatives * FY 96	TBS	VAR	VAR	VAR	VAR	VAR	VAR	YES	NO	

D. Remarks:

- Multiple projects with site specific quantities and unit costs using multiple contractors and multiple contracts. Project details are contained in classified documents pertaining to Extended Korea Improvement Program (EKIP).
- ** Site specific.

REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE BASE SUPPORT COMMUNICATIONS (BU4160)						
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
0	0.0	0.6	2.2	1.1	1.1	1.2	2.1	2.1
COST (In Millions)								

NOTE: This BLIN was formerly titled "C-E Facilities/Projects". The nomenclature was changed to better portray the nature and purpose of the program.

DESCRIPTION: This budget line funds Armywide requirements for base support radio systems and test, measurement, and diagnostic equipment (TMDE) for US Army Information Systems Command (USAISC). Base support radio systems will permit users to share frequencies thus conserving scarce radio spectra and will provide secure voice/data transmission and access to local telephone systems from portable hand held radios. Base support radios are used by installation military police, fire departments, medical personnel, and other emergency response activities to coordinate critical, time sensitive emergencies and for support during mobilization, deployment, and split-based operations. The FCC and National Telecommunications Information Administration (NTIA) will drastically reduce the available frequencies throughout the National Capital Region (NCR) and CONUS by FY 96. In Korea, the Ministry of Communications (MOC) will implement new bandwidth and channel separation criteria by FY 97, which will render existing radios obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security, other base support personnel would be severely degraded without adequate communications support provided by Land Mobile Radios (LMR). Security and garrison support to troop forces during mobilization, deployment, and split-base operations would also be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, nonportable TMDE, and interim mission support for command, control, communications, and computers worldwide. The USAISC TMDE program provides the mission support capability to the Quality Assurance/Test and Evaluation programs, analysis, and fault location of information systems worldwide. The USAISC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, nonportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems.

JUSTIFICATION: FY 96 and FY 97 funds will upgrade/replace base support radio systems that FORSCOM, MDW, and Eighth US Army (EUSA) have identified as critical requirements. Based on the USAISC 5 Year TMDE Acquisition Plan, FY 96/97 funds will also purchase replacement TMDE, which includes such items as transmission test sets, plotters, recorders, spectrum analyzers, and oscilloscopes. FY 96 and FY 97 interim TMDE support includes local area network (LAN) analyzers, protocol analyzers, data communications analyzers, and fiber optic test equipment. These funds will also provide replenishment of items that are coded non-economically repairable and TMDE to satisfy increases in authorization levels due to expanded and upgraded information systems worldwide.

(ID CODE A)	P-1 Shopping List Item No. 43	Page No. 1 of 3	EXHIBIT P-40
DD Form 2454			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME BASE SUPPORT COMMUNICATIONS (BU4160)						C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		Total Cost	FY 95		Total Cost	FY 96		Total Cost	FY 97		Total Cost
		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty	
WEAPON SYSTEM COST ELEMENTS													
TMDE Replacement/Quality Assurance TMDE	A				VAR	VAR	610	VAR	VAR	601	VAR	VAR	615
Non-Tactical Trunked Radio Sys (FORSCOM)	A							497	1	497	249	1	249
Secure Digital Non-Tactical Radio System (MDW)	A							610	1	610			
Commercial Land Mobile Radio Sys (EUSA)	A							249	2	497	249	1	249
TMDE = Test, Measurement, & Diagnostic Equipment							610						
TOTAL				0						2,205			1,113

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE BASE SUPPORT COMMUNICATIONS (BU4160)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
TMDE FY 95 FY 96 FY 97	VAR * VAR * VAR *	VAR * VAR * VAR *	CECOM CECOM CECOM	VAR * VAR * VAR *	VAR * VAR * VAR *	VAR * VAR * VAR *	VAR * VAR * VAR *	YES YES YES	NO NO NO		
Non-Tactical Trunked Radio System (FORSCOM) FY 96 FY 97	TBS TBS	C/FP C/FP	Ft. McPherson, GA Ft. McPherson, GA	NOV 95 NOV 96	FEB 96 FEB 97	1 1	497 249	YES YES	NO NO		
Secure Digital Non-Tactical Radio System (MDW) FY 96	TBS	C/FP	Ft. Meade, MD	JAN 96	MAR 96	1	610	YES	NO		
Commercial Land Mobile Radio System (EUSA) FY 96 FY 97	TBS TBS	C/FP C/FP	USACCK USACCK	NOV 95 NOV 96	FEB 96 FEB 97	2 1	249 249	YES YES	NO NO		

D. Remarks:

• Denotes TMDE effort which provides replacement test equipment to support the Information Mission Area (IMA).
State-of-the-art test equipment is contracted from a variety of Test, Measurement, & Diagnostic Equipment (TMDE) manufacturers for various sites.

USACCK = US Army Contracting Center, Korea

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE DEFENSE DATA NETWORK (DDN) (BU0300)						
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
3.0	2.7	4.9	2.2	3.2	2.3	2.4	2.4	2.4
<p>DESCRIPTION: This program addresses Army requirements for Defense Data Network (DDN)/Defense Information System Network (DISN) Gateways. It includes the acquisition of DDN gateways, X.25 data switches, Terminal Access Controllers (TACs) and associated networking devices necessary to connect Army host computers, terminals and local area networks (LANs) to the DDN. Acquisition includes installation and Installation Bill of Material (IBOM). The gateways are tailored to data requirements at each Army location and are expandable to meet changes in data requirements and interfaces. The gateways are also upgradable to future Army, DOD, and industry standards. By reducing the number of connections required to support Army DDN/DISN requirements, the gateways avoid multiple connection charges associated with each DDN/DISN connection. The DDN Program is an integral part of the Power Projection Command Control Communications Computer Infrastructure (P2C4I) initiative. The overall objective of P2C4I is to (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) replace Information Systems in a coordinated, synchronized, integrated manner; thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advanced notice.</p> <p>JUSTIFICATION: Funds will be used to add new capability in the effort to reduce DDN usage, provide more capacity for data communication users and reduce the time to acquire services. FY 96 funds will procure 42 gateways, 20 terminal servers, 800 modems, and 75 interface cards. FY 97 funds will procure 10 gateways, 15 terminal servers, 700 modems, and 85 interface cards.</p>								
(ID CODE A)								
DD Form 2454		P-1 Shopping List Item No. 44		Page No. 1 of 4		EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME DEFENSE DATA NETWORK (DDN) (BU0300)			C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Total Cost
WEAPON SYSTEM COST ELEMENTS		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	
DDN Gateways	A				VAR	30	960	VAR	42	3,360
Terminal Servers	A				15	20	300	15	15	225
Modems	A	VAR	610	325	VAR	704	375	VAR	700	364
Interface Cards	A	VAR	267	780	VAR	100	1,088	VAR	85	771
Network Management System	A	VAR	5	156						
Processor Upgrades	A	17	100	1,700						
TOTAL				2,961			2,723			4,927
										2,160

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE DEFENSE DATA NETWORK (DDN) (BU03000)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
DDN Gateways											
FY 95	MICROSTAR	8A	CECOM	JAN 95 *	VAR *	30	VAR **				
FY 96	MICROSTAR	8A	CECOM	JAN 96 *	VAR *	42	VAR **	YES	NO		
FY 97	MICROSTAR	8A	CECOM	JAN 97 *	VAR *	10	VAR **				
Terminal Servers											
FY 95	MICROSTAR	8A	CECOM	JAN 95 *	VAR *	20	15				
FY 96	MICROSTAR	8A	CECOM	JAN 96 *	VAR *	20	15	YES	NO		
FY 97	MICROSTAR	8A	CECOM	JAN 97 *	VAR *	15	15				
Modems											
FY 94	CODEX	C/FP	DECCO	APR 94	VAR *	610	VAR **				
FY 95	CODEX	C/FP	DECCO	APR 95	VAR *	704	VAR **	YES	NO		
FY 96	CODEX	C/FP	DECCO	APR 96	VAR *	800	VAR **	YES	NO		
FY 97	CODEX	C/FP	DECCO	APR 97	VAR *	700	VAR **				
Interface Cards											
FY 94	MICROSTAR	8A	CECOM	APR 94	VAR *	267	VAR ***				
FY 95	MICROSTAR	8A	CECOM	APR 95	VAR *	100	VAR ***	YES	NO		
FY 96	MICROSTAR	8A	CECOM	APR 96	VAR *	75	VAR ***	YES	NO		
FY 97	MICROSTAR	8A	CECOM	APR 97	VAR *	85	VAR ***				
D. Remarks: MICROSTAR, Jessup, MD CODEX, Huntsville, AL * Multiple awards and delivery orders/dates throughout FY. ** Site specific. *** Various types of interface cards. Site specific. DECCO = Defense Commercial Communications Office											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE DEFENSE DATA NETWORK (DDN) (BU0300)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Network Mahagement System FY 94	PRC INC	C/FP	CECOM	MAY 94*	VAR*	5	VAR**				
Processor Upgrades FY 94	UNISYS	C/FP	NASA	JAN 94*	VAR*	100	VAR**				

D. Remarks:

PRC INC = Planning Research Corporation, Inc., Reston, VA

UNISYS, McLean, VA

* Multiple awards and delivery orders/dates throughout FY.

** Site specific.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE ELECTROMAG COMP PROG (EMCP) (BD3100)							
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
\$	\$	\$	\$	\$	\$	\$	\$	\$	
COST (In Millions)	0.3	0.9	0.5	0.5	0.5	0.5	0.5	0.5	
<p>DESCRIPTION: The ELECTROMAGNETIC COMPATABILITY PROGRAM (EMCP) ensures readiness and effectiveness of command and control communications systems through the testing of tactical and strategic systems for electromagnetic compatibility with other civil or defense communications-electronics systems operating within their environment.</p> <p>ELECTROMAGNETIC RADIATION HAZARD (EMRH) surveys are conducted at conventional and special munitions storage and handling sites worldwide in order to identify/locate extraordinary electromagnetic energy levels which might cause deterioration, malfunction, or interference with signals. Propagation engineering is required in designing new networks and CE equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line-of-sight; (2) ionospheric high frequency; (3) meteor burst; (4) tropospheric and groundwave communication systems; (5) antenna performance; (6) nuclear surety; and (7) spectrum management. Types of equipment financed by this program include the following:</p> <p>A. EMC MEASUREMENT EQUIPMENT: Measurement equipment is used to conduct EMC surveys to characterize the electromagnetic environment. Surveys are used in many aspects of communications/electromagnetics.</p> <p>B. DIRECTOR OF INFORMATION MANAGEMENT (DOIM) Army Interference Resolution Program (AIRP) UPGRADE: These systems include hand-held direction finding equipment and frequency management software (AFSMS) to be supplied to ARMY DOIMS worldwide to resolve radio frequency interference problems</p> <p>C. ENGINEERING WORKSTATIONS AND PERIPHERALS: This is computers and related equipment to be used to perform propagation engineering analysis functions.</p> <p>JUSTIFICATION: FY96/97 funds will buy EMCP measurement equipment, engineering workstations and peripherals, and DOIM AIRP upgrades to sustain Army EMCP objectives and priorities.</p>									

(ID CODE A)

DD Form 2454

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EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME ELECTROMAG COMP PROG (EMCP)						C. MANUF. Numerous See 5a.	D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		Total Cost	FY 95		Total Cost	FY 96		Total Cost	Unit Cost	FY 97 Qty	Total Cost
		Unit Co	Qty		Unit Co	Qty		Unit Cos	Qty				
EMC Measurement Equipment	A				233	2	465	232	1	232	152	1	152
Engineering Workstations & Peripherals	A	1	25	32	5	50	250	4	68	266	4	10	40
Frequency Planning Terminals	A	5	45	225									
DOIM AIRP Upgrade	A				20	8	160				100	3	300
* AIRP - Army Interference Resolution Program													
Note: Unit costs are site specific and vary due to configuration.													
TOTAL				257			875			498			492

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

B. APPROPRIATION / BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE						A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment						ELECTROMAG COMP PROG (EMCP)						(BD3100)	
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL			
EMC Measurement Equip													
FY 95	IITRI	C/FP	Hanscom AFB	Feb-95	Jul-95	2	233	YES	NO				
FY 96	TBS	C/FP	Ft Huachuca, AZ	Feb-96	Jul-96	1	232	YES	NO				
FY 97	TBS	C/FP	Ft Huachuca, AZ	Feb-97	Jul-97	1	152						
Eng Workstations/Periph													
FY 94	VAR **	C/FP	Ft Huachuca, AZ	Feb-95	Feb-95	25	1						
FY 95	TBS	C/FP	Ft Huachuca, AZ	Feb-95	Feb-95	50	5	YES	NO				
FY 96	TBS	C/FP	Ft Huachuca, AZ	Feb-96	Jun-96	68	4	YES	NO				
FY 97	TBS	C/FP	Ft Huachuca, AZ	Feb-97	Jun-97	10	4						
Frequency Planning Terminal													
FY 94	IITRI	C/FP/OPTION	ECAC	Aug-94	Jan-95	45	5	YES	NO				
DOIM AIRP Upgrade													
FY 95	IITRI	C/FP	ECAC	Feb-95	Jul-96	8	20	YES	NO				
FY 97	IITRI	C/FP	ECAC	Apr-98	Jul-98	3	100						
REMARKS:													
Option to standard requirements contracts.													
Electromagnetic Compatibility Analysis Center (ECAC).													
Illinois Institute of Technology - Research Institute (IITRI)													
IBM Corp - Bethesda, MD													
EDS - Plano, TX													
Data Tech, Conshohocken, PA													
Strategic Mapping Inc. - Santa Clara, CA													
Word Perfect Corp. Orem, UT													
800 Software - Richmond, VA													
P-1 Shopping List													
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EXHIBIT P-5a													

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REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE WW TECH CON IMP PROG (WWTCIP) (BU3610)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	0.2	0.2	4.8	0.8	1.0	1.0	2.0	2.0	
<p>DESCRIPTION: The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion and modernization of Worldwide Defense Communications Systems (DCS) technical control facilities to effect the integration and efficient technical control of DCS digital transmission subsystems. These include DC power, timing and synchron, line conditioning equipment, automatic tech control, digital patch and access system (DPAS), VF tactical interface, Defense Communications Systems TRI-TAC interface, appropriate test equipment and associated hardware. It supports worldwide communications transmission media and switching upgrades such as Digital European Backbone (DEB), Korean Improvement Program, Japan Reconfiguration and Digitization, and Defense Satellite Communications. The FY 96 funds include \$3 million for the automation of Technical Control Facilities, as part of Joint Chiefs of Staff (JCS) directed Korean C4I enhancements, under the Extended Korean Improvement Program (EKIP).</p> <p>JUSTIFICATION: Automation/Integration of Technical Controls (AITC) is a USAISC directed program to streamline labor intensive technical control operations and maintenance. FY 96 and FY 97 funds will be used for the survey and engineering of specific technical controls worldwide and to procure matrix switch hardware to implement the program. These matrix switches will replace manual patching panels and automate operational, administrative, and testing functions in the tech control, reducing the total manpower requirements and other resource requirements.</p>									
(ID CODE A)									
DD Form 2454	P-1 Shopping List Item No. 46		Page No. 1 of 3		EXHIBIT P-40				

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME WW TECH CON IMP PROG (WWTCIP) (BU3610)				C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97			
WEAPON SYSTEM COST ELEMENTS		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	
Timing and Global Positioning System (GPS) Engineering Battery Upgrade	A	VAR	VAR	96							
	A	VAR	VAR	87							
Timing GPS Receivers (TGR) BOM	A				VAR	VAR	199				
Automation/Integration of Technical Controls (AITC)	A							VAR	5	4,350	600
AITC Engineering/Installation/Test	A							VAR	VAR	461	239
TOTAL				183			199			4,811	839

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

WW TECH CON IMP PROG (WWTCIP) (BU3610)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
TGR Engineering FY 94	SAIC	C/FP	ISEC	JAN 94	FEB 94	VAR*	VAR*			
Battery Upgrade FY 94	TOAD	WR	CECOM	AUG 94	NOV 94	VAR*	VAR*			
TGR BOM FY 95	TOAD	WR	CECOM	NOV 94	JAN 95	VAR*	VAR*			
AITC Equipment FY 96 FY 97	TBS TBS	C/FP C/FP	CECOM CECOM	NOV 95 NOV 96	JAN 96 JAN 97	5 1	VAR* VAR*	YES	NO	
AITC Engineering FY 96 FY 97	TBS TBS	C/FP C/FP	ISEC ISEC	OCT 95 OCT 96	NOV 95 NOV 96	VAR* VAR*	VAR* VAR*	YES	NO	

D. Remarks:

TGR = Timing GPS Receivers

GPS = Global Positioning System

SAIC = Science Applications International Corporation, Sierra Vista, AZ

AITC = Automation/Integration of Technical Controls

ISEC = Information Systems Engineering Command

* Site specific.

TOAD = Tobyhanna, Army Depot, Tobyhanna, PA

WR = Work Request

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (BB8650)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (in Millions)	32.7	22.3	64.1	24.9	21.8	25.3	32.4	33.2

DESCRIPTION: This budget line consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and information systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

JUSTIFICATION: The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunications infrastructure. It includes the MACOM Telephone Modernization Program (MTMP), an integral part of the Power Projection Command Communication Computer Infrastructure (P2C4I) initiative, which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insure compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs. The Information Systems - PACOM program continues the transition to the Integrated Services Digital Network (ISDN) for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks. It also includes funding for the Extended Korean Improvement Program (EKIP). Expanded descriptions/justifications for FY 96/97 are included in the P-40 for each program comprising this BLIN.

(ID CODE A)

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME INFORMATION SYSTEMS (BB8650)			C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		FY 94		FY 95		FY 96		FY 97			
		IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
INFORMATION SYSTEMS:											
MCA Support	(BB1400)	A			8,798			3,395			5,464
CONUS/Western Hem	(BB8700)	A			14,610			17,928			57,523
EUCOM	(BB8800)	A			345			342			391
PACOM	(BB8900)	A			8,970			674			764
TOTAL					32,723			22,339			64,142
											24,907

O REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)								
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY										
COST (in Millions)	14.6	17.9	57.5	14.6	14.3	18.5	25.4	26.2		
<p>DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMPI), and North American Numbering Plan (NANP). The MTMP Program is an integral part of the Power Projection Command Control Communication Computer Infrastructure (P2C4I) initiative. The overall objective of P2C4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems, and (2) to replace Information Systems in a coordinated, synchronized, integrated manner; thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.</p> <p>The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. The program includes replacement of 80 Government owned electromechanical switches and 25 leased switches implementing the Integrated Services Digital Network (ISDN). Repairing and maintaining rapidly deteriorating antiquated switches is not cost effective. Replacement of the antiquated switches is required to insure interface with public telecommunications networks for computer-based communications systems and to maximize the effectiveness of evolving programs. The modern switches also require fiber optic-based technologies for trunk lines between switches. The increased FY 96 funding request reflects implementation of Army's Enterprise Strategy and urgent need to modernize power projection platforms.</p> <p>The North American Numbering Plan (NANP) is an FCC directed, Belcore managed change that will enable a numbering strategy capable of sustaining the significant growth of communication capabilities and requirements. The effective date for changes to the NANP is 1 January 1995.</p> <p>JUSTIFICATION: FY 96 funds will buy eight digital switching systems to be fielded based upon the HQDA approved Installation Sequence List, and will also procure critical options and modifications to various MTMP sites. FY 97 funds will buy one digital switching system and critical options and modifications to various MTMP sites. All upgrades will be fielded after full consideration of any BRAC 95 impacts or implications affecting the Installation Sequence List. The new digital switching platforms will provide the warfighter with enhanced capability to conduct power projection operations in a split base mode. Additionally, the new switches will enable sites to exploit new communications technologies into the twenty first century.</p>										
(ID CODE A)										
DD Form 2454		P-1 Shopping List Item No. 47		Page No. 1 of 3		EXHIBIT P-40				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)									
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
Digital Switching System FY 94	GTE #	C/FP/OPTION	CECOM	FEB 94 *	VAR *	5	VAR **				
FY 95	GTE #	C/FP/OPTION	CECOM	DEC 94 *	VAR *	3	VAR **				
FY 96	GTE #	C/FP/OPTION	CECOM	JAN 96 *	VAR *	8	VAR **	YES	NO		
FY 97	GTE #	C/FP/OPTION	CECOM	JAN 97 *	VAR *	1	14,000				
MTMP Options/Modifications FY 94	GTE ##	C/FP/OPTION	CECOM	DEC 93 *	VAR *		VAR **				
FY 95	GTE ##	C/FP/OPTION	CECOM	NOV 94 *	VAR *		VAR **				
FY 96	GTE ##	C/FP/OPTION	CECOM	JAN 96 *	VAR *		VAR **	YES	NO		
FY 97	GTE ##	C/FP/OPTION	CECOM	JAN 97 *	VAR *		VAR **				
NANP FY 94	GTE	C/FP/OPTION	CECOM	JUL 94 *	AUG 94 *		VAR **				
FY 95	GTE	C/FP/OPTION	CECOM	DEC 94 *	JAN 95 *		VAR **				
Electronic Switching Sys - APG FY 94	AG COMM SYS	C/FP	APG	NOV 93	JAN 94	VAR	VAR				
Schofield Barracks Upgrade FY 95	TBS	C/FP	CECOM	MAR 95	JUN 95	1	500	YES	NO		
Remarks: <ul style="list-style-type: none"> * Multiple award and delivery dates throughout FY. ** Site specific. Unit cost varies depending on switch size and use of new or relocated switch. # Delivery Order on existing Indefinite Delivery/Indefinite Quantity (IDIQ) contract. ## Engineering Change Proposal (ECP) on existing contract. 											

GTE, Needham, MA
AG Communications Systems, Phoenix, AZ

NANP = North American Numbering Plan
APG = Aberdeen Proving Ground

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (EUCOM) (BB8800)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
<p>DESCRIPTION: This budget line supports communications initiatives to improve information systems throughout the European theater. Funding is required to 1) support ongoing productivity enhancing communication initiatives throughout HQ, 5th Signal Command, and 2) replace aging communication hardware and related devices in support of Army Standard Information Systems (ASIMS), non-ASIMS sites for Standard Army Management Information Systems (STAMIS), and U.S. Army Europe standard systems throughout the theater.</p> <p>JUSTIFICATION: FY 96 and FY 97 funds will procure communication systems/devices, cabling, hardware, upgrades, and software to improve DPI communications within the European theater. Current endstate COMTEN configuration is 3 COMTENS each at both Schwetzingen DPI and Kaiserslautern DPI. These six COMTENS are outdated and the associated software is not upgradeable. Purchase of new COMTENS will save approximately \$14K per month in maintenance costs.</p>									
(ID CODE A)									
DD Form 2454		P-1 Shopping List Item No. 47		Page No. 1 of 3		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment	B. WEAPON MODEL/SERIES/POPULAR NAME INFORMATION SYSTEMS (EUCOM) (BB8800)	C. MANUF. Numerous See 5a.	D. DATE February 1995
WEAPON SYSTEM COST ELEMENTS	FY 94 Unit Cost Qty Total Cost	FY 95 Unit Cost Qty Total Cost	FY 96 Unit Cost Qty Total Cost	FY 97 Unit Cost Qty Total Cost
Telephone Operator Referral System - Europe (TORS-E) Server Hardware & Software	A VAR 307	VAR 2 342	VAR VAR 391	VAR VAR 399
HP 9000//50 E-Mail Host	A VAR 38	VAR 2 342	VAR VAR 391	VAR VAR 399
Communication Front-end Processor Upgrade	A VAR 38	VAR 2 342	VAR VAR 391	VAR VAR 399
Communication Hardware Upgrade	A VAR 38	VAR 2 342	VAR VAR 391	VAR VAR 399
TOTAL	345	342	391	399

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

INFORMATION SYSTEMS (EUCOM) (BB8800)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
TORS-E Hardware & Software FY 94 FY 94	SMC PRC	C/FP/OPTION* C/FP/OPTION*	FRANKFURT RCO FRANKFURT RCO	DEC 93 DEC 93	JAN 94 JAN 94	10 10	29 2			
HP 9000//50 E-mail Host FY 94	PRC	C/FP/OPTION*	FRANKFURT RCO	AUG 94	SEP 94	** VAR	** VAR			
Communication Front-end Processor Upgrade FY 95	Dynamic Corp	C/FP	FT. BELVOIR	MAR 95	MAY 95	2	** VAR	YES	NO	
Communication Hardware Upgrade FY 96 FY 97	Dynamic Corp Dynamic Corp	C/FP C/FP	FT. BELVOIR FT. BELVOIR	MAR 96 MAR 97	MAY 97 MAY 98	** VAR ** VAR	** VAR ** VAR	YES YES	NO NO	

D. Remarks:

* SMC Small Multi-user Computer Contract (Dec 93) and PRC Super Mini-Computer Contract.

** Quantity and unit cost vary by configuration.

SMC, Hauppauge, NY
AT&T, Greensboro, NC
PRC, Reston, VA
Dynamic Corp, Burlington, MA

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (PACOM) (BB8900)								
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
COST (In Millions)	9.0	0.7	0.8	0.8	0.9	0.9	1.0	1.0		1.0
<p>DESCRIPTION: Information Systems (PACOM) encompasses nontactical telecommunications requirements to support Army base operations and U.S. Military Command and Control requirements in the Pacific theater. It includes upgrade of fixed plant telephone systems in Korea and Japan. The Korea Telephone Upgrade (KTU) and Japan Telephone Upgrade (JTU) programs provide for modernization of Army telephone systems/networks in the respective countries. Initially, electromechanical switches were replaced with electronic digital switches at 29 locations in Korea and 8 locations in Japan. The switches have improved administrative telephone service and accommodated initial C2 requirements using techniques permitting more efficient operation and maintenance through centralization of dial service assistance and maintenance. These switches now need to be enhanced to exploit voice and data capabilities now available commercially, which are required for command and control (C2) users in Japan and Korea.</p> <p>NOTE: This budget line also includes funding in FY 94 (\$8.6M) to support C4 Korean Initiatives as approved by JCS.</p> <p>JUSTIFICATION: The FY 96 and FY 97 funds will procure Batch Change Supplement (BCS) software upgrades which will permit state-of-the-art functions to be added to the switches and will allow the switches to operate more efficiently to support mission requirements. The Army must continue migration into the Integrated Services Digital Network (ISDN) and upgrade the switch BCS software. ISDN is an 8th Army requirement and included in the Army Long Range Plan. Under ISDN, the systems acquired will provide both an intra-base information transfer capability, as well as access to local distribution of information carried by bulk data transfer systems such as the Defense Data Network, using existing digital switches in Korea and Japan. Continued delay will leave common data transmission unfulfilled and the field will continue to proliferate costly individual stovepipe and non-standard networks. ISDN will enable the Army to remain technologically current with private industry and the other services. The BCS software upgrades will permit state-of-the-art functions to be added to the switches, which will allow the switches to operate more efficiently and support mission requirements.</p>										
(ID CODE A)										
DD Form 2454		P-1 Shopping List Item No. 47		Page No. 1 of 5		EXHIBIT P-40				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)						A. DATE				
APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
Other Procurement, Army 2 - Communications and Electronics Equipment		INFORMATION SYSTEMS (PACOM) (BB8900)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
KTU / ISDN / BCS Upgrade FY 94 FY 95 FY 96 FY 97	GTE GTE TBS TBS	C/FP C/FP/OPTION C/FP/OPTION C/FP/OPTION	CECOM CECOM CECOM CECOM	MAR 94 DEC 94 JAN 96 JAN 97	APR 94 FEB 95 JUL 96 JUL 97	1 1 1 1	40 674 764 810			
Japan Telephone Upgrade FY 94	GTE	C/FP	CECOM	AUG 94	NOV 94	1	300			
C4 KOREAN INITIATIVES: Battery Upgrade FY 94 FY 94	TOAD TOAD	WR WR	CECOM CECOM	SEP 94 VAR **	DEC 94 VAR **	VAR * VAR *	VAR * VAR *			
FCC-100's FY 94 FY 94	SRC SRC	C/FP C/FP	NAVY NAVY	SEP 94 DEC 94	NOV 94 JAN 95	10 7	20 20			
Engineering & Proj Mgmt Spt FY 94 FY 94 FY 94	SAIC SAIC IN-HOUSE	C/FP C/FP MIPR	USAISC USAISC USAISC	SEP 94 FEB 95 VAR **	OCT 94 MAR 95 VAR **	1 1 VAR *	424 345 VAR *	YES	NO	

D. Remarks:

KTU = Korean Telephone Upgrade
 ISDN = Integrated Services Digital Network
 BCS = Batch Change Supplement Software
 JTU = Japan Telephone Upgrade
 TOAD = Tobyhanna Army Depot, Tobyhanna, PA

* Site specific.
 ** Multiple awards in FY.

GTE, Needham Heights, MA
 SRC = Scientific Research Corp., Marietta, GA
 SAIC = Scientific Applications International Corp, Sierra Vista, AZ
 WR = Work Request

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

INFORMATION SYSTEMS (PACOM) (BB8900)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
C4 Korean Initiatives (Cont'd):										
Installation FY 94	IN-HOUSE	MIPR	504TH SIG BN	SEP 94	OCT 94	1	160			
IBOM FY 94	VAR*	VAR*	SHARPE DEPOT	VAR*	VAR*	VAR**	VAR**			
Test & QA Support FY 94	SEMA	C/FP	ISC	DEC 94	JAN 95	1	166			
SMUs FY 94	GTE	C/FP	CECOM	DEC 94	JAN 95	7	VAR**			
TMDE FY 94	VAR**	C/FP/OPTION	CECOM	VAR***	FEB 95	VAR**	VAR**	YES	NO	
GMF Upgrades FY 94	VAR****	VAR****	VAR****	VAR****	VAR****	3	VAR**	YES	NO	

D. Remarks:

SEMA = System Engineering & Mgt Associates, Sierra Vista, AZ

GTE = Government Systems Corp, Needham Heights, MA

- * Various contracts awarded by Sharpe Depot throughout the FY
- ** Site Specific
- *** Multiple awards in FY
- **** Various contracts awarded by Sharpe and Tobyhanna Army Depot

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (PACOM) (BB8900)								
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
C4 Korean Initiatives (Cont'd):											
Site Prep FY 94	DEH	MIPR	1ST SIG BDE	VAR*	DEC 94	13	VAR**				
Bipolar Converters FY 94	SIMULATION LABS	C/FP	CECOM	NOV 94	NOV 94	33	2				
Offshore Command & Control FY 94	TEXTRON	C/FP	NAVY	VAR*	JAN 95	1	490	YES	NO		
Echo Cancellers FY 94	NET	C/FP	CECOM	FEB 95	MAR 95	40	3	YES	NO		
SMU Certification -- JITC FY 94	IN-HOUSE	MIPR	JITC	FEB 95	FEB 95	1	58	YES	NO		
Remarks: * = Department of Engineering and Housing SIMULATION LABORATORIES, INC., Hyattsville, MD TEXTRON, Norfolk, VA NET = Network Equipment Technologies, Vienna, VA JITC = Joint Interoperability Test Center, Ft Huachuca, AZ											

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	1	1	1	1	1	1	1	1
COST (In Millions)	8.8	3.4	5.5	9.1	6.2	5.5	5.5	5.5
<p>DESCRIPTION: This program provides state-of-the-art major information systems equipment such as integrated voice/data switches, basic telephone instruments, Tier II computers (i.e., common-user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user Local Area Network (LAN) transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects. Also included in this program are funds in FY 97 for information systems to be installed in conjunction with renovation of the facility housing the Industrial College of the Armed Forces (ICAF). The Army is executive agent for the National Defense University, which is renovating Building 59, Fort McNair, to correct longstanding over-crowding and failing/antiquated mechanical systems. Classrooms are predominantly of 1960's vintage and cannot accommodate modern electronic systems without major improvements to the building's infrastructure. The MCA funded information systems are critical to NDU's ability to comply with academic standards, improve the quality and professionalism of instructional systems, meet Congressional mandates for increased faculty/student ratio, and support growing student loads.</p> <p>JUSTIFICATION: FY 96 and FY 97 funds will support information systems requirements associated with approved FY 94/95/96/97 MCA projects. Funding will be applied to specific projects based on mission priority, timing of the construction schedule, estimated beneficial occupancy date (BOD), and lead time required for the acquisition and installation of the associated information systems. Funding will support the regulatory requirements as outlined in the US Army Information Systems Command (USAISC) and Corps of Engineers (USACE) Memorandum of Agreement, 1 June 1986 and Army Directives. These funds are essential to ensure information systems are installed in sync with the Corps of Engineers MCA construction schedules. The FY 97 funds also buy information systems associated with renovation of the structure housing the Industrial College of the Armed Forces (ICAF) at the National Defense University. These systems will provide the capability for state-of-the-art academic instruction using interactive strategic simulation, modern interactive data and voice communication, and multi-media presentations.</p>								
(ID CODE A)								
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)			C. MANUF. Numerous See 5a.	D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97		
			Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
MCA Projects:											
Telephone Switches		A	1,566	1	1,566						
Switch Upgrades		A	VAR	47	3,614	VAR	22	1,105			
Telephone Systems		A	VAR	46	343	VAR	30	241			
Contract Engineering		A	371	1	371	873	1	441			
LAN Transport System		A	VAR	3	300	VAR	8	1,608			
Eisenhower Hall MCA Support (TRADOC)		A	VAR	VAR	2,604						
Information Systems Upgrade - Eisenhower Hall, Ft. McNair (NDU)		A							3,675	1	3,675
TOTAL					8,798			3,395			5,464
											9,139

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
MCA Projects: Telephone Switches/ECTS FY 94 FY 96 FY 97	VARIOUS*** TBS TBS	C/FP	ISEC-CONUS	VAR *	VAR *	1	VAR *			
		C/FP	ISEC-CONUS	VAR *	VAR *	3	VAR *	YES	NO	
		C/FP	ISEC-CONUS	VAR *	VAR *	2	VAR *	YES	NO	
Switch Upgrades FY 94 FY 95	VARIOUS*** TBS	OPTION**	ISEC-CONUS	VAR *	VAR *	47	VAR *			
		OPTION**	ISEC-CONUS	VAR *	VAR *	22	VAR *	YES	NO	
Telephone Systems FY 94 FY 95	VARIOUS*** TBS	C/FP	ISEC-CONUS	VAR *	VAR *	46	VAR *			
		C/FP	ISEC-CONUS	VAR *	VAR *	30	VAR *	YES	NO	
Contract Engineering FY 94 FY 95	SAIC SAIC	C/FP	ISEC-CONUS	VAR *	VAR *	1	VAR *			
		C/FP	ISEC-CONUS	VAR *	VAR *	1	VAR *			
LAN Transport Systems FY 94 FY 95	VARIOUS*** TBS	C/FP	ISEC-CONUS	VAR *	VAR *	3	VAR *			
		C/FP	ISEC-CONUS	VAR *	VAR *	8	VAR *	YES	NO	

D. Remarks:

ECTS = Electronically Controlled Telephone System

ISEC-CONUS = Information Systems Engineering Command - CONUS

SAIC = Science Applications International Corporation, Sierra Vista, AZ

* Site specific

** Option to existing C/FP contracts.

*** VARIOUS: Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Eisenhower Hall MCA Support (TRADOC) FY 94	VARIOUS **	C/FP	TRADOC	VAR *	SEP 94	VAR *	VAR *			
Information Systems Upgrade - Eisenhower Hall, Ft. McNair FY 97	TBS	C/FP	ARMY CORPS OF ENGINEERS	JAN 97	MAR 97	1	3,675			

D. Remarks:

* Site specific.

** Contractors include: Ameritech Library Services, Provo, UT; Pulsar Data Systems, Landham, MD; GTSI, Chantilly, VA; Integrated Computer Technology, Irvine, CA; Southern CAD/CAM, Knoxville, TN; Planning Research Corp (PRC), McLean, VA; EDS Corp, Plano, TX; Digital Equipment Corp, Landham, MD; US Connect, Kansas City, MO; ISYX LAN Systems, Rockville, MD.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE DEFENSE MESSAGE SYSTEM (DMS) (BU3770)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (in Millions)	5.2	16.4	8.0	6.0	2.3	3.6	3.5	3.5

DESCRIPTION: The Defense Message System (DMS) provides regional, installation level, and user interfaces to DOD record communications services Armywide. The program is currently transitioning from Phase I to Phase II. The Army Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN) Host (DINAH), Automated Special Security Information System Terminal (ASSIST), and the majority of the host replacement program are Phase I actions. Phase I is on schedule, and under current funding levels, will be completed at the close of FY 95. Phase II focuses on the full scale implementation of Consultative Committee on International Telephony & Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. This process will begin in FY 95 and continue, under current funding levels, through FY 2000. The Phase I transition items are currently available through standardized ordering agreements. Installation locations have been identified, and installation/implementation staffing has been allocated. The new message systems will feature: (1) A user operated service concept; (2) A single form of message service using a simplified message format; (3) Multilevel secure processing; and (4) Automated local distribution via information transfer networks.

JUSTIFICATION: FY 96 and FY 97 funds will be used to continue the procurement of DMS components off of the DMS contract and issuing delivery orders off other existing contracts. Those components will consist of the necessary mail packages for each site, along with the Fortezza cards, card readers, mail list agents, local area workstations, and mail transfer agents for entry into the DMS message transfer system. The number of sites that will be totally DMS compliant will be dependent upon the cost of the product and upon the operations concept that is to be implemented. As more sites become DMS compliant, operation and maintenance (O&M) costs will decline and the telecommunication centers (TCCs) along with the AUTODIN system will start to close.

(ID CODE A)

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME DEFENSE MESSAGE SYSTEM (DMS)				C. MANUF. Numerous See 5a.		D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		Total Cost	FY 95		Total Cost	FY 96		Total Cost	FY 97		Total Cost
		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty	
DMS GOSIP Components	A	VAR	VAR	2,785	VAR	VAR	13,825	VAR	VAR	7,963	VAR	VAR	6,024
Message Security Protocol Cards	A	VAR	VAR	1,306	VAR	VAR	694						
Automated Gateway Messaging System (AGMS)					VAR	VAR	1,371						
Automated Message Distribution, Determination, Reproduction, & Collating System (AMDDRCs) Replacement - Europe	A	VAR	2	1,069	460	1	460						
TOTAL				5,160			16,350			7,963			6,024

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

APPROPRIATION / BUDGET ACTIVITY

Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

DEFENSE MESSAGE SYSTEM (DMS) (BU3770)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
DMS Components FY 94 FY 95 FY 96 FY 97	PRC/ EDS/ CODEX GTE/ EDS/ TBS TBS TBS	C/FP C/FP C/FP C/FP	USAF/CECOM USAF/CECOM USAF USAF	MAR 94 JAN 95 JAN 96 JAN 97	VAR * VAR * VAR * VAR *	VAR VAR VAR VAR	VAR ** VAR ** VAR ** VAR **			
Msg Security Protocol Cards FY 94 FY 95	GROUP TECH CORP GROUP TECH CORP	C/FP C/FP	NSA NSA	APR 94 JAN 95	VAR * MAR 95	VAR VAR	VAR *** VAR ***			
Automated Gateway Messaging System (AGMS) FY 95	GTE	C/FP	NAVY	JAN 95	MAR 95	VAR	VAR **			
AMDDRCS Replacement -- Europe FY 94 FY 95	JPL JPL	C/FP C/FP	NASA NASA	SEP 94 FEB 95	DEC 95 APR 95	2 1	VAR 460			

D. Remarks:

EDS - Electronic Data Systems, Reston, VA
 PRC - Planning Research Corp, Reston, VA
 GROUP TECH CORP, Tampa, FL
 NASA - National Aeronautics Space Administration
 AMDDRCS - Automated Message Distribution, Determination, Reproduction, and Collating System

CODEX, Alexandria, VA
 GTE, Chantilly, VA
 JPL - Jet Propulsion Laboratory, Pasadena, CA
 AT&T, Greensboro, NC

DISA - Defense Information Systems Agency, Wash DC
 * Multiple awards & delivery dates throughout FY.
 ** Site specific
 *** Each card costs \$98.00.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE LOCAL AREA NETWORK (LAN) (BU4165)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (in Millions)	17.5	22.5	61.5	18.4	18.4	15.5	9.9	9.9	

DESCRIPTION: The Installation Information Backbone Data Transport Networks, fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (IITSIP) designed to improve data communications transfer capabilities at Army installations worldwide. This program provides state-of-the-art, high speed, common user, data backbone networks and includes the hardware, software, and interfaces to both site internal and external systems, networks, and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the DISN Wide Area Network (WAN) external to the site. The Army is currently utilizing outdated systems, obsolete overstressed telephone resources, and expensive non-standard interim measures to satisfy the increasing data communications requirements. The installation backbone LAN program will ensure a smooth transition to the Army's long term objective architecture. The Army has increased the number of computers in use at installations Armywide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Standard Army Management Information Systems (STAMIS), which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the Defense Data Network (DDN)/DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of backbone networks. The installation backbone will complement the ISDN when this capability becomes available. The backbone provides the means for transferring information within the confines of the Army's posts, camps, and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DDN/DISN, tenant organizations (including tactical units), commercial, and other common user networks. Acquisition of installation backbones will conform to DOD policy to pursue migration of defense data networks to support the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

The LAN Program is an integral part of the Power Projection Command Control Communications Computer Infrastructure (P2C4I) initiative. The overall objective of P2C4I is to (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace Information Systems in a coordinated, synchronized, integrated manner; thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice. The increased FY 96 funding request reflects implementation of Army's Enterprise Strategy and urgent need to modernize power projection platforms.

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REPORTS CONTROL SYMBOL DD-COM(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE LOCAL AREA NETWORK (LAN) (BU4165)		
(Continuation)				
<p> JUSTIFICATION: FY 96 and FY 97 funds will engineer, furnish, and install backbone networks at 19 and 6 sites respectively on the HQDA approved Installation Sequence List. The backbone network effort is a continuing project. Installations to be upgraded are determined by the number and locations completed in the prior year. All upgrades will be fielded after full consideration of any BRAC 95 impacts or implications affecting the Installation Sequence List. LAN installation is critical to support the ever increasing data transfer requirements attributable to actions supporting key Army wartime doctrines and the drawdown of Conventional Forces, Europe. The Army is currently using outdated systems, obsolete, overstressed telephone resources, and expensive, non-standard measures to satisfy the increasing data communications requirements. High speed, backbone LAN's will be installed to modernize site data transport capability, improve connectivity, standardize transport networks, and increase capacity for key Army systems such as Defense Message System (DMS), Installation Support Module (ISM), Sustaining Base Information Service (SBIS), Joint Computer Aided Acquisition and Logistics System (JCAALS), Combined Health Care System(CHCS), and Reserve Component Automation System (RCAS). </p>				
(ID CODE A)				
P-1 Shopping List Item No. 49		Page No. 2 of 4		EXHIBIT P-40

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE LOCAL AREA NETWORK (LAN) (BU4165)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Installation Backbone Local Area Network (LAN) FY 94 FY 95 FY 96 FY 97	AT&T AT&T, LORAL, EDS LORAL, EDS LORAL, EDS	C/FP C/FP C/FP C/FP	USAF USAF / CECOM USAF / CECOM USAF / CECOM	NOV 93 * NOV 94 * NOV 95 * NOV 96 *	APR 94 JUN 95 JUN 96 JUN 97	VAR** 6 19 6	VAR** VAR** VAR** VAR**				
ULANA II Minimum Buy FY 95	EDS	C/FP	USAF	JAN 95	MAR 95	1	1,500	YES	NO		
LAN/KOREA FY 96	TBS	C/FP	USAF	NOV 95	JAN 96	1	497	YES	NO		

D. Remarks:

AT&T, Greensboro, NC
EDS = Electronic Data Systems Corp, Herndon, VA
ULANA = Unified Local Area Network Architecture
LORAL, Springfield VA

- * Multiple awards and deliveries throughout the year.
- ** Site specific/unique, configuration varies by site.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE PENTAGON TELECOM CENTER (PTC) (BQ0100)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (in Millions)	3.5	3.1	2.7	19.7	10.9	13.7	18.9	14.1	

DESCRIPTION: This budget line includes funding for the Pentagon Telecommunications Center (PTC) and the Pentagon Information Management and Telecommunications Project. The Pentagon Telecommunications Center Systems (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed AUTODIN gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

The Pentagon Renovation Project is an on-going construction project directed by OSD/WHs and implemented by a Resident Program Manager, Corp of Engineers (COE), and a Project Manager for Information Management & Telecommunications (IM&T), Information Systems Command (ISC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and the implementation for a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes relocation of the National Military Command Center (NMCC)/Service Operation centers, consolidation of seven Telecommunications Control facilities, collocation of 11 ADP facilities to two facilities and consolidation of 15 command and control, tactical and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The FY 97 funding represents Army's share of the multi-service/agency budget requirements. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs.

JUSTIFICATION:

PTC. FY 96 funds will procure DMS equipment platforms and electronic message delivery systems with the objective of providing secure and reliable message delivery to the desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems. Beginning in FY 96 we will also start replacing the backup power for the PTCs. Three turbines are over 30 years old and two are over 20 years old. This procurement strategy will continue in FY 97.

Pentagon IM&T Project. FY 97 funds will procure equipment for the unclassified and classified telecommunication backbones for Wedge 1 renovation of the Pentagon. The new renovated space will include a common-user unclassified and classified telecommunications backbone that will provide the means to transport voice, data, video services throughout the Pentagon and access to global networks. Major equipment for these systems include ATM backbone hubs, single port SONET/SDH interfaces, Multiplexers and Video Broadband/Fiber transmitters.

(ID CODE A)

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Army Procurement, Army 2 - Communications and Electronics Equipment										C. P-1 ITEM NOMENCLATURE PENTAGON TELECOM CENTER (PTC) (B00100)	
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Direct Access Storage Dev (DASD) FY 94	IBM **	C/FP/OPTION	DSS-W	Feb-94	Sep-94	1	71				
MAPS UNITS FY 94	XEROX **	C/FP/OPTION	ISSAA	Feb-94	Jun-94	1	342				
CPU FY 94	GDC **	C/FP/OPTION	AIR FORCE	Jul-94	Sep-94	2	953				
Comm Bases for FEP FY 94	AT&T/NCR **	C/FP/OPTION	DSS-W	Feb-94	Jun-94	8	24				
Sys SAW Upgrade to ESA FY 94	IBM **	C/FP	DSS-W	Jul-94	Jul-94	VAR*	VAR*				
LAN Components for PTC FY 94	UNISYS **	C/FP/OPTION	DSS-W	Sep-94	Nov-94	2	52				
Network Security Monitoring System FY 94	GTSI **	C/FP/OPTION	DSS-W	Sep-94	Nov-94	1	90				
COMM Bases for FEP, Site P FY95	AT&T/NCR **	C/FP/OPTION	DSS-W	Mar-95	May-95	30	29	YES	NO		
COMTEN 5655 FEP FY 95	AT&T/NCR **	C/FP/OPTION	DSS-W	Mar-95	May-95	2	549	YES	NO		
Keyboard Video Display (KVDIT) FY95	IBM **	C/FP	DSS-W	Mar-95	May-95	6	16	YES	NO		

REMARKS:

* Upgrade will be site specific resulting in various unit costs and quantities.

** IBM, Bethesda MD; XEROX Special Information Systems, Pasadena, CA; General Dynamics Corp (GDC), St. Louis, MO; AT&T/NCR Federal Systems Division, Rockville MD; UNISYS, McLean, VA;
GTSI, Chantilly, VA; Solar Turbine, Baltimore, MD
MAPS = Multiple Automated Printing System

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A DATE: February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

PENTAGON TELECOM CENTER (PTC) (BQ0100)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF WHEN AVAIL
Electro Msg Delivery Sys FY95	Navy	C/FP	DSS-W	Dec-94	Jan-95	2	125	YES	NO	
FY96	TBS	C/FP	DSS-W	Mar-96	May-96	5	94	YES	NO	
FY97	TBS	C/FP	DSS-W	Mar-97	May-97	5	94			
DMS Compliant Equipment FY 95	TBS	C/FP/Option	PM Switch Sys	Jun-95	Sep-95	VAR*	VAR*	YES	NO	
FY 96	TBS	C/FP/Option	PM Switch Sys	Mar-96	Jun-96	VAR*	VAR*	YES	NO	
FY 97	TBS	C/FP/Option	PM Switch Sys	Mar-97	Jun-97	VAR*	VAR*			
Commo SAW Dev Host FY97	TBS	C/FP	DSS-W	Nov-96	Feb-97	1	60			
Electro Msg Security Features FY96	TBS	C/FP	DSS-W	Mar-96	May-96	VAR*	VAR*	YES	NO	
FY97	TBS	C/FP	DSS-W	Mar-97	May-97	VAR*	VAR*			
Turbine Generators FY96	Solar Turbine **	C/FP	DSS-W	Mar-96	Jun-96	2	650	YES	NO	
FY97	Solar Turbine **	C/FP	DSS-W	Mar-97	Jun-97	2	650			
Pentagon IM&T Upgrade: Unclassified Backbone, FY 97 Wedge 1	Bell Atlantic ***	C/FP	DSSW	Jan 97	Apr 97	1	10,492	Yes	No	
Classified Backbone, FY97 Wedge 1	Bell Atlantic ***	C/FP	DSSW	Jan 97	Apr 97	1	6,693	Yes	No	

REMARKS:

*Unit costs and quantities will vary by configuration.

** Solar Turbine, Baltimore, MD.

*** TEMPO Contract with Bell Atlantic, Arlington VA

DSSW - Defense Supply Services Washington

TEMPO - Telecommunication Modernization Project

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EXHIBIT P-5a

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE FOREIGN COUNTERINTELLIGENCE PROGRAM (BK5282)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	0.3	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST									
DD Form 2454		P-1 Shopping List ITEM NO. 51			Page No. 1 OF 1		EXHIBIT P-40		

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE GENERAL DEFENSE INTELLIGENCE PROGRAM (BD3900)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	33.6	31.1	29.4	21.9	22.7	23.6	24.9	26.2	
CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST									
DD Form 2454		P-1 Shopping List Item No. 52		Page No. 1 of 1		EXHIBIT P-40			

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET						DATE	
DD-COMP(AR) 1092								FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY		P-1 Item Nomenclature							
Other Procurement, Army 2 - Communications and Electronics Equipment		ITEMS LESS THAN \$2M (Intel Spt) TIARA (BL5278)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (in Millions)		3.6	1.4	2.8	2.2	3.0	3.0	1.5	1.5
<p>DESCRIPTION: This line supports tactical intelligence and related activities for training cryptologic, Signals Intelligence (SIGINT), Electronic Warfare (EW), and Imagery Intelligence (IMINT) skills. Funds will: upgrade training devices to maintain commonality across similar systems; continue development and exploration of transferability of skills among UNIX-based program workstations; enable a seamless learning environment which facilitates time-shifted learning, self-paced study, and participation in realistic synthetic environments. New procedures and environment for training will enable students to work on real-world products and operations in support of the field army. Students in one class will be able to team with students in another class or course in a common networked environment. All training devices should be built to a common simulation data architecture so they can use common data feeds and participate in virtual exercises. Simulations can also be delivered in target languages.</p> <p>JUSTIFICATION: FY96/97 supports the following requirements:</p> <ul style="list-style-type: none"> * Complete transition of MI Simulation Center to full DIS compliance. * Complete transition of SCI training LAN capabilities to full integration with JWICS Intellink. * Acquire TRIRIP systems and 3-D visualization system for CI/HUMINT training. * Develop and acquire simulation model for IEW Common Sensor. * Integration of all Officer unclassified training material into a common software environment with standardized hardware * Provide every instructor with a common software environment and plug-in networks available in classified and unclassified classrooms to present instruction and to handle training admin. Obtain standardized low end multimedia presentation tools for both AC and RC. * Develop a high-speed path for all students and instructors to an industry on-line services provider. * SUN Microsystems to support SIGINT Analyst training for programs such as ASAS and TROJAN. * Electronic maintenance training support for VHF receiver repairmen for programs such as TEAMMATE, TRAILBLAZER, and PRD-12. * Imagery Analyst training capabilities which mirror national Imagery systems for TENCAP. * Continuation of Basic Electronic Maintenance Trainer (BEMT) upgrade for programs such as TRAFFICJAM, TEAMMATE, QUICKFIX, and TRACKWOLF. 									
DD Form 2454		P-1 Shopping List Item No. 53		Page No. 1 of 1		EXHIBIT P-40			

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BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OPA2/Communications & Electronics Equipment

ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
Quantity						2	5	10
COST (In Millions)	33.9	23.4	9.9	7.9	9.1	34.8	65.0	74.8

(U) DESCRIPTION: The All Source Analysis System (ASAS) will provide US Army commanders a means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The ASAS is a ground based, mobile intelligence processing system designed to provide automated support to the combat commander in the areas of intelligence and collections management, all-source, targeting and situation analysis, single and multi-source processing and reporting, electronic warfare, and operational security as well as support to the generation of intelligence products in those areas. The ASAS program is an evolutionary development effort consisting of three blocks that are designed to produce an automated battlefield intelligence fusion system that fully satisfies Army Operational Requirements. The system interfaces with national Echelons Above Corps (EAC) Intelligence assets, adjacent/higher/lower military intelligence units and Tactical Operational Center (TOC) support elements, Army Command and Control System (ATCCS), airborne, ground stationed and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses Combat Net Radio along with Net Radio Protocol and the Intelligence Digital Message Terminal (AN-PSC-2) to receive the majority of information from forward deployed sensors and teams.

The ASAS Block I System incorporates balanced technology initiative (BTI) for improved timeliness and accuracy of Intelligence Support to the battlefield commander.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Military Intelligence units and National Guard Brigades) be accomplished by FY99. This accelerated fielding, commonly called ASAS-Extended, is being accomplished by issuing ASAS software operating on commercial hardware to provide limited ASAS capability to active force units not receiving ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the ASAS Block I effort as the initial baseline, leveraging the traditional acquisition successes of ASAS Block I, combining them with relatively low cost NDI equipment, and tailoring the existing training and maintenance support structure, all of which allows units to incrementally build to a full ASAS capability as resources permit. ASAS provides the battlefield commander situational awareness of the intelligence picture from national assets to the foxhole, supporting his warfighting decisions.

JUSTIFICATION: FY96 and FY97 funding is used to provide Interim Contractor Support and Project Management Administration Support for ASAS Block I Systems; procure 9 ASAS-Extended systems and modules in FY96 and 13 ASAS-Extended systems and modules in FY97.

Identification Code: A.

DD Form 2454, JUL 88

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EXHIBIT P-40

NOTE: All funds in parent SSN KA4400 are in SSNKA28801.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)				A. Appropriation/Budget Activity Title/No. OPA2 Communications & Electronics Equipment/K28801		B. WEAPON MODEL/SERIES/POPULAR NAME: ASAS		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION: California Microwave, Inc./Various		D. DATE MONTH/YEAR February 1995	
Weapon System Cost Elements	Ident. Code	FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	Qty Total Cost		
1. Hardware: ASAS Modules	A	*357K	Qty=7 2,500								
ASAS Extended Systems & Modules		800K	Qty=5 3,999	763K	Qty=5 3,817	479K	Qty=9 4,315	391K	Qty=13 5,086		
2. Project Management Administration			6,090		5,614		4,352		2,344		
3. Engineering Support			2,269		0		0		0		
4. Fielding			3,361		6,222		738		386		
5. Interim Contractor Support			7,590		6,722		481		75		
6. Other			**8,124		1,035		0		0		
Total			33,933		23,410		9,886		7,891		

* Buys one Compartmented ASAS Message Processing System (CAMPS) which is a low cost compact replacement for the CCS module.

** Includes JPL close-out, LCSEC, and software licenses.

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Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY OPA2/ Communications & Electronics Equipment				C. P-1 ITEM NOMENCLATURE ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)							
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
ASAS Module FY94	California Microwave Inc. Woodland Hills, CA	C/CPFF	ATCOM	Oct 93*	Jan 94	7	\$357K	Yes	N/A	N/A	
ASAS Extended Systems & Modules FY94	Jet Prop Lab Pasadena, CA Sytex, VA	SS/CPFF	CECOM	Dec 93	Jan 94	1	\$800K	Yes	N/A	N/A	
**FY95	TBS	C/FP	CECOM	Mar 95	Jul 95	5	\$763K	Yes	N/A	N/A	
**FY96	TBS	C/Option	CECOM	Nov 95	Mar 96	9	\$479K	Yes	N/A	N/A	
**FY97	TBS	C/Option	CECOM	Nov 96	Mar 97	13	\$391K	Yes	N/A	N/A	
D. REMARKS											
<p>* Date contract was modified to include procurement of Compartmented ASAS Message Processing System (CAMPS) modules.</p> <p>** Info pertains to CHS II contract award. Commercial equivalents will be used until contract is awarded.</p> <p>1.) Date equipment purchased by SE/TA contractor.</p>											

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P-1 ITEM NOMENCLATURE
ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)

FY95 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE ALL SOURCE ANALYSIS SYS

P-1 ITEM NOMENCLATURE
ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)

DATE: February 1995

[illegible]

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995							
APPROPRIATION/BUDGET ACTIVITY:		P - 1 ITEM NOMENCLATURE:							
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		COMMANDERS TACTICAL TERM(CTT)(TIARA) (V29600)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		2	17	33	58	51	51	57	61
COST (IN MILLIONS)		\$6.5	\$11.6	\$11.3	\$14.6	\$12.3	\$12.8	\$14.0	\$14.6

DESCRIPTION:

The Commanders Tactical Terminal (CTT) is a family of special application UHF Line of Sight (LOS) /Satellite Communications (SATCOM) Secure Intelligence dissemination reporting system for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable, jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. The system consists of: Communications Terminal (CT) equipment (quantities reflected above); Secure Data System (SDS); Radio Relay System (RRS); Radio Relay Test Set (RRTS) and antennas. The CT consists of: the one channel CTT fielded to V Corps and XVIII Corps; 2 channel CTT/H-R (Hybrid - Receive only) and 3 channel CTT/H and CTT/H-R (Receive only). The one channel utilizes the Tactical / Reconnaissance eXchange System (TRIX) network. The 2 and 3 channels can receive data on TRIX, Tactical Information Broadcast Service (TIBS), Tactical Receive Equipment and Related Applications (TRAPS), and Tactical Data Information eXchange System (TADIXS) networks. In addition the 3 channel can also employ generic UHF frequencies.

The CTT terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time (NRT) to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The CTT facilitates reaction inside the enemy decision cycle and is necessary in winning the information war on the battlefield.

JUSTIFICATION:

FY 96/97 funding is required to procure sufficient CTT hardware to meet urgent user requirements. For fiscal years 96/97, all quantities are three channel variants that will be fielded to the US Army Contingency Corps or other high priority units. CTT can be fielded in either a stand alone configuration, or integrated into other systems in support of tactical commanders. CTT is an integral part of the Army's high priority initiative to digitize the battlefield and delivers critical targeting and intelligence data from a wide variety of sensors. The CTT/H and CTT/H-R are critical force multiplier links in providing NRT targeting and intelligence data to tactical commanders through all theaters and echelons of operations.

(ID Code B)

P-1 SHOPPING LIST
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WEAPON SYSTEM COST ANALYSIS COMMANDERS TACTICAL (CTT) (TIARA) (V29600)		A. Appropriation/Budget Activity Title/No. OTHER PROCUREMENT, ARMY COMMUNICATIONS & ELECTRONICS EQUIP		B. WEAPON MODEL MODEL/SERIES/POPULAR NAME COMMANDERS TACTICAL (CTT)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION E-SYSTEMS ST. PETERSBURG, FL		D. DATE: Feb 1985						
Weapon System Cost Elements		IDENT CODE	FY84 Unit Cost	FY84 Qty	FY84 Total Cost	FY85 Unit Cost	FY85 Qty	FY85 Total Cost	FY86 Unit Cost	FY86 Qty	FY86 Total Cost	FY87 Unit Cost	FY87 Qty	FY87 Total Cost
HARDWARE CTT (2 CH) (FY94) CTT (3 CH/R) (FY97) CTT (3 CH) (FY95-97)	B	141	*23	3254	265	17	4505	265	33	8745	175	36	6270	
	B			0									5744	
	B			414										
SUPPORT ECO'S DATA SYS TEST & EVAL ENGINEERING SPT IN-HOUSE CONTRACTOR FIELDING				502									298	
				1739									130	
				(581)									232	
				(1158)									1312	
				250									(520)	
PROGRAM MGMT (ADMIN)				338									(792)	
													198	
TOTAL				6497				11644		11314			14572	

* 23 CTT/H-R PROCURED IN FY94 DUE TO REVISED PROCUREMENT STRATEGY. PREVIOUSLY REPORTED QUANTITY WAS 2.

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BUDGET PROCUREMENT HISTORY & PLANNING										DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2-COMMUNICATIONS AND ELECTRONICS EQUIPMENT										P-1 ITEM NOMENCLATURE: COMMANDERS TACTICAL TERMINAL (CTT)(TIARA)(V29600)	
COST ELEM FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	(000) UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
2 CH FY94	E-SYSTEMS ST.PETERSBURG,FL	SS/FP *	USAF	MAY 94	OCT 95	23	141	YES	NO		
3 CH FY95	E-SYSTEMS ST.PETERSBURG,FL	SS/FP *	CECOM	MAR 95	SEP 96	17	265	YES	NO		
3 CH FY96	E-SYSTEMS ST.PETERSBURG,FL	SS/FP	CECOM	DEC 95	FEB 97	33	265	YES	NO		
3 CH FY97	E-SYSTEMS ST.PETERSBURG,FL	SS/FP	CECOM OPTION	NOV 96	NOV 97	36 (3 CH/R) 22 (3CH)	175 260	YES	NO		
REMARKS:											
* MOD TO EXISTING CONTRACT											

P-1 SHOPPING LIST
ITEM NO. 55

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EXHIBIT P-5A

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UNCLASSIFIED

PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT

P-1 ITEM NOMENCLATURE

COMMANDEERS TACTICAL TERM (CTT) (TIARA) (V29600)

(V28600)

[illegible]

FACILITY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			MONTHS TO REORDER OR AFTER DELAY	REMARKS
		MATERIALS FOOT/PAN	144	MATERIALS		
1	E-SYSTEMS INC, ST PETERSBURG, FL	2	5	14	7	

P-1 SHOPPING LIST
ITEM NO. 55

EXHIBIT P-21

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UNCLASSIFIED

UNCLASSIFIED															PRODUCTION SCHEDULE (EXHIBIT P-21)												DATE: February 1995			
APPROPRIATION/BUDGET ACTIVITY															P-1 ITEM NOMENCLATURE												(V29600)			
OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT															COMMANDERS TACTICAL TERM (CTD, TIARA)															
															FISCAL YEAR 99												FISCAL YEAR 00			
															CALENDAR YEAR 99												CALENDAR YEAR 00			
															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP			
FACILITY NO.	UM	SERV	PROGRAM QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	ACCEP	BALANCE	PRIOR TO 1 OCT 97	1 OCT 97																		
1	A	45							45	0																0				
1	A	23							23	0																0				
1	A	17							17	0																0				
1	A	33							29	4																0				
1	A	58							0	58																0				
TOTAL															114	62														0
															REMARKS												FY 94 QUANTITIES ARE OFF A LARGER USAF PRODUCTION RUN. THERE IS NO BREAK IN THE PRODUCTION PROGRAM.			

EXHIBIT P-21
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P-1 SHOPPING LIST
 ITEM NO. 55

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REPORTS CONTROL SYMBOL		"CODE B" ITEM DESCRIPTION		DATE: February 1995	
DD-COMP (AR) 1092		P-1 ITEM NOMENCLATURE:		COMMANDERS TACTICAL TERM(CTT)(TIARA)	
APPROPRIATION/BUDGET ACTIVITY:		OTHER PROCUREMENT, ARMY 2		(V29600)	
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		CURRENT START DATE		REASON FOR DELAY	
CURRENT DEVELOPMENT AND TEST STATUS:		SCHEDULE DATE		LAST REPORTED	
3CH CTT/H & 3CH CTT/H-R		NA		OPERATIONAL TESTS TO BE CONDUCTED WITH HOST PLATFORM.	
OPERATIONAL TEST		PLAN/ACTUAL		SEP 94	
PERFORMANCE SPEC (3 CH)		PLAN/ACTUAL		SEP 94	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:					
LRIP DECISION APPROVED MAY 88 TC-LP; CONTINUED 3 CHANNEL LOW RATE PRODUCTION (LRP). MS III - NOV 95.					
EQUIPMENT ITEM(S) TO BE REPLACED:					
TACTICAL COMMANDERS TERMINAL (TCT) AN/TSC-87					
IMPROVED COMMANDERS TACTICAL TERMINAL (ICTT) AN/TSC-116					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:					
1) SERVICE (ARMY/AIR FORCE/NAVY/MARINE CORPS) AND TACTICAL INTELLIGENCE DISSEMINATION (TID) NETWORK BROADCAST (TRIXS/TIBS/TADIXS/GENERIC UHF) INTEROPERABILITY.					
2) REDUCTION IN SIZE, WEIGHT, AND PWR REQMTS. 3)ANTI-JAM CAPABILITY. 4)EMBEDDED CRYPTO.					
5) INCREASED DATA THROUGHPUT. 6) FULL DUPLEX DATA. 7)FIELD MESSAGE GENERATION.					
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY93	CYR 94	BEYOND BYR
E-SYSTEMS	ST PETERSBURG, FL	AN/TSC-125			
TOTAL RDT&E FUNDING	CONDUCTED BY USAF THROUGH		\$39.4M		
	DEF AGENCY FUNDING/DCP		\$4.0M		
	ARMY R&D				
REMARKS:					
FY93 OT was an Operational Limited User Test to support a CTT and 2 CH CTT/H-R fielding decision, and continue Low Rate Production.					

P-1 SHOPPING LIST
ITEM NO. 55

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EXHIBIT P-19

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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995	
P-1 ITEM NOMENCLATURE:			
HF COMINT SYSTEM (TIARA)		(V18200)	
		FY94	FY95
		FY96	FY97
		FY98	FY99
		FY00	FY01
APPROPRIATION/BUDGET ACTIVITY:			
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT			
QUANTITY	1		
COST (IN MILLIONS)	21.8	0.0	0.0
<p>DESCRIPTION:</p> <p>The need for an HF COMINT System (Enhanced TRACKWOLF), AN/TSQ-199, is an outgrowth of the TRACKWOLF, AN/TSQ-152, system procured in FY89 to satisfy the Army's urgent requirement for a High Frequency (HF) skywave Communications Intelligence (COMINT) system which is targeted against enemy command, control, communication and intelligence emitters at theater and higher echelons in support of intelligence and targeting requirements. It provides essential information (situation development, indications and warnings of enemy force dispositions, and emitter location data) required by deep attack systems and for theater level force allocations. Enhanced TRACKWOLF has three major functions: HF Collection, Direction Finding, and Management and Analysis. Enhanced TRACKWOLF provides detection, recognition, collection and direction finding of Low Probability of Intercept (LPI) communications, digital data and burst. Each subsystem is ground based, deployable asset capable of independent operation providing the commander greater flexibility in the conduct of situation deployment and HF COMINT operations against High Value Targets (HVT). Enhanced TRACKWOLF equipment will be installed/integrated in a transit-case configuration to provide for mobility, transportability and rapid deployment in support of contingency operations.</p> <p>JUSTIFICATION:</p> <p>The Enhanced TRACKWOLF system is being produced in response to an Operational Requirements Document (ORD) to provide HF COMINT support to Corps and Echelon Above Corps (EAC) field commanders. The objective of the FY94 acquisition, based on lessons learned from Desert Storm, is to incorporate Non-Developmental Items (NDI) assets to produce a down-sized version of the initial TRACKWOLF system currently deployed in Europe. This system also addresses Congressional concerns regarding the need for a rapid deployable HF COMINT system. This ground based system provides the Commander with an organic capability to intercept, locate, exploit, or initially target for destruction sources of threat High Frequency (HF) voice communications. This system can be tailored extensively to meet a wide range of mission objectives giving immediately to the Theater Commander early, reliable, and critical intelligence throughout his entire area of interest prior to, as well as after, initiation of hostilities.</p>			

EXHIBIT P-40

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P-1 SHOPPING LIST

ITEM NO. 56

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WEAPON SYSTEM COST ANALYSIS				A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: Other Procurement, Army 2- Communications Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME: HF COMINT SYSTEM (TIARA)				C. MANUFACTURER NAME PLAN STATE LOCATION: ERA, 1495 Springhill Road Vienna, VA 22182				D. DATE: February 1995	
EXHIBIT (P-5)				FY94		FY95		FY96		FY97		FY98		FY99			
Weapon System Cost Elements	Ident. code	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Total Cost		
HARDWARE	B	19,705	1	19,705													
SUPPORT																	
ECO'S				0													
DATA				300													
SYS TEST & EVAL				0													
ENGINEERING SPT				1,400													
IN-HOUSE				242													
CONTRACT				100													
FIELDING				70													
PROGRAM MGMT (ADMIN)																	
TOTAL				21,817													

Exhibit P-5 Weapon System Cost Analysis

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						DATE: February 1995				
B. APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2-COMMUNICATIONS AND ELECTRONICS EQUIPMENT						C. P-1 ITEM NOMENCLATURE HF COMINT SYSTEM (TIARA)			(V18200)	
LINE ITEM/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ENHANCED TRACK- WOLF FY 94	ENGINEERING RESEARCH ASSOCIATES, VIENNA, VA	C/FPAF	CECOM	MAR 94	MAR 96	1	19,705	YES		
D. REMARKS:										

EXHIBIT P-5A

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APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT

HF COMINT SYSTEM (TIARA)

(V18200)

[illegible]

FACILITY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES					MONTHS TO REACH MAX AFTER DOW	REMARKS
		1-5		MAXIMUM		TOTAL		
		MINIMUM	SUSTAIN	1-5	MAXIMUM			
1	ERA, Vienna, VA	1	1	1	1	24		

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		"CODE B" ITEM DESCRIPTION		DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT				P-1 ITEM NOMENCLATURE: HF COMINT SYSTEM (TIARA) (V18200)	
CURRENT DEVELOPMENT AND TEST STATUS:					
		CURRENT START DATE	SCHEDULE DATE LAST REPORTED	REASON FOR DELAY	
DEV TEST & EVAL (DT&E) PLAN/ACTUAL		MAR 92			
INITIAL OPER TEST & EVAL (IOT&E) PLAN/ACTUAL		NOV 95			
OPER TEST & EVAL (OT&E) PLAN/ACTUAL		JAN 93			
AVAIL DATE OF TECH DATA PKG (TDP)					
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: APR 96					
EQUIPMENT ITEM(S) TO BE REPLACED: AN/MSSA-34 Operational Unit Transportable System (OUTS) (collection system) and AN/TRD-23A, Radio Direction Finder Set (DF System) at 201st MI BN.					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: The enhanced technology to allow high speed identification, collection and processing of threat HF communications signals in an increasingly sophisticated and dense environment. Increase responsiveness to theater commander's tasking and reporting requirements. This system can be tailored extensively to meet a wide range of mission objectives, giving immediately to the Theater Commander early, reliable, critical intelligence throughout his entire area of interest prior to initiation of hostilities.					
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY94	CYR 95	BEYOND BYR
QUESTECH Incorporated	Falls Church, VA	Map Graphics Enhancements	2,900		
GTE Incorporated	Mountain View, CA	Wintercat II	0,700		
US Army CECOM IEWD	VHFS, Warrenton, VA	Man/Machine Interface	0,900		
		TOTAL	4,500		
REMARKS:					

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BUDGET ITEM JUSTIFICATION SHEET
APPROPRIATION/BUDGET ACTIVITY:

DATE: February 1995

P-1 ITEM NOMENCLATURE:

OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS &
 ELECTRONICS EQUIPMENT

IEW- GND BASE COMMON SENSORS (TIARA)

(BZ7326)

QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (IN MILLIONS)	0.0	58.4	46.9	46.6	45.2	47.3	47.4	59.4

DESCRIPTION:

Ground Based Common Sensor (GBCS) is an absolute "win the battlefield information war" element. GBCS provides the Commanders of Army Divisions, Armored Cavalry Regiments, and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render ineffective through electronic attack opposition command and control and fire control communications nets and identify and precisely locate opposition counter/mortar and counter/battery ground surveillance radar emissions. The system is in two configurations specifically designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments, and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne, and Air Assault elements in support of contingency operations. GBCS-Heavy is configured on a derivative of the Bradley Fighting Vehicle System, the Electronic Fighting Vehicle System (EFVS), which is being developed in concert with the Command and Control Vehicle (C2V), for deployment with Heavy and Armored elements. It is the Army's only on-the-move, on-the-ground, all terrain, self-contained, fully integrated, 24-hour-a-day, signals intelligence and electronic attack asset.

GBCS exploits or eliminates - at the Commander's discretion - the latest, most modern types of hostile modulations, including modern Radar and frequency hopping communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, it's heliborne counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery.

GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps.

JUSTIFICATION:

The FY96 funds completes the Limited Procurement Urgent in response to the Department of the Army approved Operational Needs Statement for contingency forces. The FY97 funds continues the GBCS production line with the initiation of full rate production to support Department of the Army approved Operational Requirements Document. Sensor subsystems to be incorporated in FY96 include: (1) TACJAM-A ESM (Electronic Support Measures) subsystem to intercept and locate conventional, digital data, burst, and frequency hopping communications; (2) CHALS-X precision location subsystem to provide for location accuracies of communications emitters sufficient for targeting by organic artillery; and (3) CMES ELINT subsystem to identify and locate, also with targeting accuracies, hostile conventional and modern modulation counter mortar and counter battery ground surveillance radars. The FY97 systems will also include the TACJAM-A Electronic Attack subsystem to provide for surgical jamming of conventional, digital data, burst, and frequency hopping communications.

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 ITEM NO. 57
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EXHIBIT P-40
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WEAPON SYSTEM COST ANALYSIS				EXHIBIT (P-5)				A. Appropriation/Budget Activity Title/Other Procurement, Army/2-Communications Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR POPULAR NAME:IEW-GND BASE COMMONCOMMON SENSOR		C. MANUFACTURER NAMEPLANT, CITY/STATE/LOCATION:ESI, IncorporatedRichardson, TX		D. DATE:February 1995		
Weapon System Cost Elements	Ident. code	FY94		FY95		FY96		FY97		Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty							
HARDWARE TACJAM-A ESM TACJAM-A ECM CHALS-X CMES GBCS-L INTEGRATION/CFE	B			9,023	6	54,135 (23,786) 0	7,310	5	36,550 (16,000) 0	8,670	5	43,350 (13,000) (5,350) (7,350) (3,900) (13,750)				
						(9,384) (5,745) (15,220)			(7,500) (4,000) (9,050)							
SUPPORT FACILITIES ECO'S DATA SYS TEST & EVAL ENGINEERING SPT IN-HOUSE CONTRACT FIELDING						0 0 1,441 2,128			4,550 1,300 1,000 1,300			0 200 398 295				
						345 200 0			1,400 200 387			1,388 200 500				
PROGRAM MGMT (ADMIN)						156			250			250				
TOTAL						58,405			46,937			46,581				

Exhibit P-5 Weapon System Cost Analysis

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2-COMMUNICATIONS AND ELECTRONICS EQUIPMENT										C. P-1 ITEM NOMENCLATURE IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	
LINE ITEM/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
GBCS FY95	ESI Incorporated Richardson, TX	C/FP (OPTION)	CECOM	DEC 94	JAN 97	6	9,023	YES			
GBCS FY96	To Be Selected	C/FP	CECOM	OCT 95	JUL 97	5	7,310	YES			
GBCS FY97	To Be Selected	C/FP (OPTION)	CECOM	OCT 96	JUL 98	5	8,670	NO	YES	MAY 96	

D. REMARKS:

FY95 is an exercise of option to the existing development contract for limited procurement (urgent) requirement.
 FY96 initiates competitive production.
 FY97 provides contract option for additional systems and also includes a communications jamming (TACJAM-A ECM) subsystem.

EXHIBIT P-5A

**P-1 SHOPPING LIST
ITEM NO. 57**

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REPORTS CONTROL SYMBOL		"CODE B" ITEM DESCRIPTION		DATE: February 1995	
DD-COMP (AR) 1092					
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:			
OTHER PROCUREMENT, ARMY 2		IEW - GND BASE COMMON SENSORS (TIARA)			
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		(BZ7326)			
CURRENT DEVELOPMENT AND TEST STATUS:		SCHEDULE DATE		REASON FOR DELAY	
		CURRENT START DATE	LAST REPORTED		
AVAIL DATE OF TECH DATA PKG (TDP) FOR GBCS-L (LPU SYS)		SEP 94	SEP 94		
CUSTOMER TEST/DEV TEST		FEB 95	JAN 95		
INITIAL OPER TEST & EVAL (IOT&E)/LUT		MAY 95	APR 95		
AVAIL DATE OF TECH DATA PKG (TDP) FOR GBCS		SEP 95	SEP 95		
		TECHNICAL DIFFICULTIES EXPERIENCED DURING FINAL SOFTWARE INTEGRATION AND DEVELOPMENT OF DIRECTION FINDING CALIBRATION TABLES.			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: APR 89 Type Classification for Limited Production Urgent (LPU). Type classify standard Sep 96.					
EQUIPMENT ITEM(S) TO BE REPLACED: TEAMMATE, TRAILBLAZER, TACJAM, TEAMPACK, TRAFFIC JAM					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: This effort will field a communications and electronics intelligence capability to operate against modem types, frequency hoppers, digital data and burst increase the frequency range, provide emitter locations of targeting accuracy and incorporate an electronic countermeasures capability. The GBCS system will interoperate with Advanced QUICKFIX and will utilize common modular sensor systems.					
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY94	CYR 95	BEYOND BYR
ESI, Inc.	Richardson, TX	GBCS System Integrator	90	40	5
Joint Venture: AEL, Inc/Saunders	Lansdale, PA/Nashua, NH	TACJAM-A (PE 64270/DL12)	187	19	5
LORAL	Owego, NY	CHALS-X	44	2	0
United Defense	San Jose, CA	EFVS	10	1	0
Magnavox, Inc	Ft Wayne, IN	HIU	8	0	0
GTE	Mt View, CA	DTSR	0	0	0
TOTAL			339	62	14
REMARKS: All CHALS-X RDT&E also applicable to GUARDRAIL/Common Sensor. EFVS RDT&E also applicable to C2V. HIU RDT&E also applicable to TEAMMATE. RDT&E also applicable to Advanced QUICKFIX and USMC applications. RDT&E is a sum of Army RDT&E and National Security Agency controlled Defense Cryptologic Program.					

P-1 SHOPPING LIST

EXHIBIT P-19

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE FEBRUARY 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 Item Nomenclature Defense Airborne Recon Prog (DARP) -TIARA (BA0329)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	1.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
<p>DESCRIPTION: The Tactical Exploitation of National Capabilities (TENCAP) Imagery Program provides the tactical commander (Corps and Echelon Above Corps) with an organic capability to receive and exploit digital imagery in near-real-time from multiple levels of sensors. The Army currently has two imagery system fielded to XVIII Corps and V Corps with one additional system to be fielded to the 513th Bde in 3Qtr FY95.</p> <p>Further information may be found in the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume III and the Army's TENCAP Master Plan.</p> <p>JUSTIFICATION: In FY96, all funds in the line were transferred to the Defense Airborne Reconnaissance Office (DARO) Defense Wide Procurement Line P 03051540 (DARP).</p> <p>FY94 shown under old nomenclature "Imagery Processing System (IPS)" Standard Study Number (SSN) is the same as shown above.</p>								
DD Form 2454	P-1 Shopping List Item No. 58		Page No. 1 of 3		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME DEF AIRBORNE RECON PROG (DARP) (TIARA) (BA0329)			C. MANUF. Numerous See 5a.		D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97		
			Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
1. NIS Mods/Engineering Sup/Replacement		A	491	3	1472	505	3	1515			
2. RE Mods/Engineering Sup/Replacement		A				258	1	258			
3. Procure new RE to replace NIS		A									
4. Procure new TSS to replace ET		A									
5. NIS Refurbishment*		A									
FY94:											
-Redesign/Replace NIS Fiber Optic Receive Capability			77	3	230						
-Redesign/Replace Very Large Data Storing Recorder (VLDS)			75	3	225						
FY95:											
-Redesign/Replace Mission Computer Unit (MCU)						213	3	638			
Totals					1927			2411			0
National Input Segment (NIS):											
Army Fair Share of Mods/Engineering Support Component replacement - NIS system											
-Receive element (RE): Army Fair share of Mod/Engineering Support/Computer replacement - RE System.											
Hardcopy reconstruction unit (HRU) are not being replaced until 00-02.											
* Armys 3 NISs will be refurbished over the next 4 years, FY94-97.											
TOTAL											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995
PPROPRIATION / BUDGET ACTIVITY Procurement, Army 2 - Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE DEF AIRBORNE RECON PROG (DARP) (TIARA) (BA0329)					
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
NIS/MOD/ES FY94	CLASSIFIED	SS/CPAF	CLASSIFIED	JAN 94	SEP94	3	490,667	YES		
NIS MOD/ES FY95	CLASSIFIED	SS/CPAF	CLASSIFIED	DEC94	SEP95	3	505,000	YES		
NIS REFURBISHMENT FY94 Redesign: FORC VLDS	CLASSIFIED TBD	SS/CPAF TBD	CLASSIFIED CLASSIFIED	MAY94 FEB94	MAY95 JUN95	3 3	76,667 75,000	YES YES		
NIS MOD/ES FY95	TBD	TBD	CLASSIFIED	MAR95	SEP95	1	258,000	YES		
NIS REFURBISHMENT FY95 REDESIGN MCU	CLASSIFIED	TBD	CLASSIFIED	APR95	MAR96	3	212,667	YES		
D. Remarks: The National Input Segment (NIS) are based on early 80's technology which is being replaced with the Receive Element using the latest Government/Commercial off the shelf technology. VLDS: Very Large Data Storage FORC: Fiber Optic Receive Capability MCU: Mission Computer Unit HRU: Hardcopy Reconstruction Unit TSS: Tri-Band Satellite System MOD/ES: Modification/Engineering Support/Component Replacement										

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:					DATE: FEBRUARY 1995		
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		JOINT STARS (ARMY) (TIARA) (BA1080)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		-	-	-	-	-	-	-	-
COST (IN MILLIONS)		\$57.8	\$55.2	\$83.0	\$90.0	\$94.3	\$80.6	\$86.5	\$85.5
<p>DESCRIPTION:</p> <p>The Joint Surveillance Target Attack Radar System (Joint STARS), is a Surveillance battle management and targeting radar system. It is a Joint Army and Air Force Program with the Air Force as the executive service. The Joint STARS radar is an airborne multimode radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target Indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified E-8 aircraft (AN-TSQ-XXX) and broadcasts radar data to the Army Ground Station Modules (GSM) through an omnidirectional data link. In addition to Joint STARS data, the GSM will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The GSM is a tactical data processing and evaluation center that links the Joint STARS carried aboard the Air Force E-8 aircraft to the Army C3I Tactical Fire Direction System (TACFIRE) and All Source Analysis System (ASAS) nodes at the Corps, Division and Brigade levels. The GSM will assist commanders in determining battle management and targeting.</p> <p>Commencing in FY96, Joint Stars Ground Stations will incorporate Secondary Imagery Dissemination and other enhancements that evolve the GSM into the Army's Common Ground Station (CGS). The CGS integrates signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fulfill an urgent air-land battlefield deficiency by providing an Army / Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Forward Line Of Troops (FLOT).</p> <p>JUSTIFICATION:</p> <p>The Army has an urgent requirement for a world-wide deployable ground station capable of processing and reporting radar intelligence and imagery intelligence obtained from a variety of airborne platforms (e.g. Joint STARS, objective deep Unmanned Aerial Vehicle (UAV) close UAV and allied aerial platforms). Based upon Joint STARS highly successful Operation Desert Storm (ODS) performance, an immediate GSM contingency Corps fielding requirement was approved by HQDA and supported in subsequent OSD Conventional Systems Committee (CSC) and Defense Acquisition Board (DAB) reviews.</p> <p>The FY96 funds complete the LRIP Acquisition of LGSMs that will be fielded to the US Army Contingency Corps. The FY96 and FY97 funds also provide for two CGS division sets per year. The CGSs will be fielded to XVIII Airborne Corps elements.</p> <p>(ID Code "B")</p>									

EXHIBIT P-40

P-1 SHOPPING LIST
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WEAPON SYSTEM COST ANALYSIS JOINT STARS (ARMY) (TIARA)				A. Appropriation/Budget Activity Title/No. OTHER PROCUREMENT ARMY 2 COMMUNICATIONS & ELECTRONICS EQUIP		B. WEAPON MODEL MODEL/SERIES/POPULAR NAME GROUND STATION MODULE (GSM)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION MOTOROLA INC. SCOTTSDALE, AZ		D. DATE: Feb 1995			
Weapon System Cost Elements	IDENT CODE	FY94		FY95		FY96		FY97		Total Cost			
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty				
HARDWARE BLOCK I MEDIUM (MGSM) BLOCK I LIGHT (LGSM) COMMON GROUND STATION (CGS)	B	5382	7	37531	8	5722	45774	5638	2	11276	6228	12	74736
	B							5927	10	59288			
SUPPORT ECOS DATA SYS TEST & EVAL ENGINEERING SPT IN-HOUSE CONTRACTOR FIELDING				8827			2469			3252			5617
				5489			1257			1151			1154
				1598			1416			1956			2839
				909			1235			1798			1928
				(399)			(416)			(490)			(520)
PROGRAM MGMT (ADMIN)				(510)			(819)			(1308)			(1406)
				2822			2379			3305			2575
													1006
TOTAL				620			709			978			
				57796			55239			82984			89855

Exhibit P-5 Weapon System Cost Analysis

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UNCLASSIFIED

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UNCLASSIFIED

BUDGET PROCUREMENT HISTORY & PLANNING										DATE: February 1995
APPROPRIATION/BUDGET ACTIVITY: ARMY 2-COMMUNICATIONS AND ELECTRONICS EQUIPMENT			OTHER PROCUREMENT, JOINT STARS (ARMY) (TIARA)		P-1 ITEM NOMENCLATURE: (BA 1080)					
COST ELEM FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	(000) UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
MGSM OPT FY94	MOTOROLA SCOTTSDALE AZ	SS/OPT	CECOM	NOV 93	MAR 96	7	5362	YES	NO	
LGSM FY95	MOTOROLA SCOTTSDALE AZ	SS/FP	CECOM	APR 95	JUN 97	8	5722	YES	NO	
LGSM OPT FY96	MOTOROLA SCOTTSDALE AZ	SS/OPT	CECOM	NOV 95	DEC 97	2	5638	YES	NO	
CGS FY96	TO BE SELECTED	C/FP	CECOM	APR 96	MAY 98	10	5927	YES	NO	
CGS OPT FY97	TO BE SELECTED	C/FP	CECOM	DEC 96	JAN 99	12	6228	YES	NO	
REMARKS:										

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ITEM NO.

EXHIBIT P-5A

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UNCLASSIFIED

ITEM No. 59

UNCLASSIFIED

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		"CODE B" ITEM DESCRIPTION		DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2		P-1 ITEM NOMENCLATURE: JOINT STARS (ARMY) (TIARA)		(BA1080)	
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		CURRENT DEVELOPMENT AND TEST STATUS:			
		CURRENT START DATE	SCHEDULE DATE LAST REPORTED	REASON FOR DELAY	
DEV TEST & EVAL (DT&E)		PLAN/ACTUAL MAR 94			
OPER TEST & EVAL (OT&E)		PLAN/ACTUAL NOV 95		JOINT TEST IMPACT DUE TO SLIP IN AIRCRAFT SCHEDULE.	
AVAIL DATE OF TECH DATA PKG (TDP) PLAN/ACTUAL OR PERFORMANCE SPECIFICATIONS		JAN 95			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:		MAR 95 - BLOCK 1 LIGHT GSM (LGSM) LRIP. AUG 96 - MS III / IV.			
EQUIPMENT ITEM(S) TO BE REPLACED:		THE JOINT STARS GSM IS A NEW BATTLEFIELD MANAGEMENT AND TARGETING SYSTEM. NO CURRENT SYSTEM CONTAINS THESE CAPABILITIES, THEREFORE NOTHING PRESENTLY AVAILABLE WILL BE REPLACED.			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:		NA			
DEVELOPMENT CONTRACT INFORMATION: PE U604770.D202.D2CT,DB44					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY 94	FY 95	FY 96
MOTOROLA	SCOTTSDALE, AZ	D3/DGSM	37.3	0	0
MOTOROLA	SCOTTSDALE, AZ	IGSM	98.9	0	0
MOTOROLA	SCOTTSDALE, AZ	FIELD SPT	32.7	4.6	3.4
MOTOROLA	SCOTTSDALE, AZ	MGSM	83.2	0	0
MOTOROLA	SCOTTSDALE, AZ	LGSM/HGSM	92.3	18.5	4.7
MOTOROLA	SCOTTSDALE, AZ	CGS	0	2.7	2.0
HUGHES/HONEYWELL	MINNEAPOLIS, MN	TRAINER	27.4	0	0
CUBIC/GRUMAN	SAN DIEGO, CA	DATA LINK	5.9	3.3	3.1
MISCELLANEOUS		VARIOUS	108.7	11.1	5.6
TOTAL RDTE FUNDING			487.4	40.2	18.8
REMARKS:			BEYOND BYR 97-01		
OT&E DATE REFERS TO FY MULTISERVICE OPERATIONAL TEST & EVALUATION (MOT&E). DT&E AND TDP REFERS TO LGSM PROGRAM (LRIP FY95).					

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EXHIBIT P-19

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	DATE
		FEBRUARY 1995
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army, Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE DIGITAL TOPOGRAPHIC SUPPORT SYSTEM/QUICK RESPONSE MULTICOLOR PRINTER (DTSS/QRMP) (TIARA)	KA2550
	FY94	FY95
		FY96
		FY97
		FY98
		FY99
		FY00
		FY01
QUANTITY	14	5
	3	4
		3
		1
COST (In Millions)	\$ 10.4	\$ 7.8
	\$ 7.0	\$ 6.7
	\$ 8.2	\$ 5.1
	\$ 2.0	\$ 2.5

DESCRIPTION: The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in Apr 94 by the Combat Developer, stated the requirement to proceed immediately with the Downsized DTSS configuration and further identified that QRMP functionality would be incorporated in the DTSS for a single integrated terrain analysis and reproduction capability. It has been determined that the downsized capability is now more appropriate to support contingency operations, operations other than war (OOTW), and split based operations. The DTSS/QRMP will be deployed at Division, Corps, and EAC in support of these missions. The DTSS/QRMP will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g. captured enemy maps) and other topographic and terrain products. Part of imagery exploitation includes the development of a Multi-Spectral Imagery Processor (MSIP), which provides an image map making capability. Due to current world events and the possibility of contingency missions in areas where standard map products are not available, image map production has become an urgent need. The CTIS program office has been tasked with the mission to issue the DTSS-MSIP as an interim measure to topographic units in FY95.

JUSTIFICATION: FY96/97 funding will be used to procure upgrades for the computer hardware and peripherals in the seven DTSS Low Rate Initial Production (LRIP) units and for one upgraded EMD unit. The LRIP and upgraded EMD units are being fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, HAWAII, and Korea (PACOM). This system will provide a standard terrain analysis, topographic and reproduction capability to the commander. It will give him a 3 dimensional look at the battlefield and be flexible enough to provide this quickly enough to maintain a common picture of the battlefield and stay situationally aware, thus allowing him to fight the battle.

IDENTIFICATION: Code A

DD Form 2454, JUN 86

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XHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. Appropriation/Budget Activity Title/No.				B. Weapon Model/Series/Popular Name		C. Manufacturer Name Plant City/State Location		D. Date Month/Year	
OPA 2, COMMS AND ELECTRONICS EQUIPMENT				DIGITAL TOPO SUPPORT SYSTEM/ QUICK RESPONSE MULTI-COLOR PRINTER (KA2550)		MARTIN MARIETTA CORP FORT WASHINGTON, PA		FEBRUARY 1995	
Weapon System Cost Elements	Ident Code	PY FY94		CY FY95		BY 1 FY96		BY 2 FY97	
		UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST
1. HARDWARE	A	307	6444 (21)	373	5224 (14)	951	4754 (5)	867	2600 (3) 1500 *
a. DTSS-MSIP									
b. DTSS LRIP UPGRADE									
c. DTSS/QRMP									
2. ENGINEERING SUPPORT			1900		350		400		400
a. DTSS LRIP ILS/ECP ENG.									
b. MISC OUT-OF-HOUSE ENG			350						
c. LIFE CYCLE SW/ ENG (SED)			300						
3. FIELDING									
TOTAL PACKAGE FIELDING			250		380		132		380
NEW EQUIPMENT TRAINING			130		195		68		200
FIRST DEST TRANSPORT			40		70		20		33
4. PROJECT MANAGEMENT AND ADMINISTRATION			728		760		780		770
5. INTERIM CONTRACTOR SUPPORT			270		800		800		800
TOTAL			10412		7779		6954		6683

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	
B. APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment										FEBRUARY 1995	
C. P-1 ITEM NOMENCLATURE										KA 2550	
DIGITAL TOPOGRAPHIC SUPPORT SYSTEM/QUICK RESPONSE MULTICOLOR PRINTER (DTSS/QRMP) (TIARA)											
COST ELEM/ FISCAL YEAR	CONTRACTOR AND LOCATN	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
DTSS-MSIP FY94	MARTIN MARIETTA CORP (MMC)	C/FP	U.S. ARMY TOPO ENGRNG CENT (USATEC)	MAY 94	SEP 94	21	307,000	YES			
FY95	MMC	C/FP	USATEC	OCT 94	FEB 95	14	373,000	YES			
DTSS UPGRADE FY96 FY97	TOBYHANNA ARMY DEPOT (TOAD)	WR	USATEC USATEC	MAR 96 OCT 97	JAN 97 NOV 98	5 3	951,000 867,000	NO NO			
D. REMARKS											
USATEC has contracted for hardware to support the DTSS-MSIP and DTSS Upgrade programs. Due to recent market place reductions, a significant decrease in hardware costs (30-50%) has been realized through the procurement of commercially available CHS hardware. Consequently the overall Unit Cost for the DTSS-MSIP and DTSS Upgrade hardware has been significantly reduced.											
All computer hardware will be provided by USATEC as GFE to prime. Other major components (printers, scanners, etc) will also be procured by USATEC and provided as GFE to the prime.											
DD FORM 2446-1, JUL 87										Page 3 of 4 Pages	
P-1 SHOPPING LIST 60										EXHIBIT P-5a	

FY96/97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE DIGITAL TOPOGRAPHIC SUPPORT SYSTEM (DTSS) QUICK RESPONSE MULTICOLOR PRINTER (QRP) (TARA)(KA2550)										DATE FEBRUARY 1995																																																																																		
ITEM MANUFACTURER PROCUREMENT YEAR		S E R V	QTY	PROC TO 1 OCT 93	ACQ PRIOR TO 1 OCT 93	BAL DUE AS OF 1 OCT 93	FISCAL YEAR 1994												FISCAL YEAR 1995												FISCAL YEAR 1996												FISCAL YEAR 1997												FISCAL YEAR 1998																																															
							CALENDAR YEAR 1994												CALENDAR YEAR 1995												CALENDAR YEAR 1996												CALENDAR YEAR 1997												CALENDAR YEAR 1998																																															
							JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC												JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC												JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC												JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC												JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC																																															
DTSS-MSIP/																																																																																																						
MARTIN MARIETTA FY94							A												10																																																																																			
DTSS-MSIP/																																																																																																						
MARTIN MARIETTA FY95							A												8												6																																																																							
TOTAL							35												0												35																																																																							

REMARKS:

FY96/97 funding will be used to upgrade seven DTSS Low Rate Initial Production units and one Engineering and Manufacturing Development (EMD) unit.

Production rates reflect the fact that the government is providing commercial GFE to MMC (SE&I contractor) for integration and delivery. A production line has not been established for the DTSS-MSIP. Consequently, months that identify zero deliveries do not reflect production breaks.

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE Drug Interdiction Program (DIP) (BU4050)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	10.6								
CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST									
DD Form 2454		P-1 Shopping List Item No. 61		Page No. 1 of 1		EXHIBIT P-40			

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE TACTICAL EXPLOITATION OF NAT'L CAPABILITIES (TENCAP) (TIARA) (BZ7315)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	\$ 7.7	\$ 4.6	\$ 4.6	\$ 1.8	\$ 1.8	\$ 1.9	\$ 5.0	\$ 14.9	
<p>Description: The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. To date, the program has been responsible for provisioning the AN/TSQ134(V) (Electronic Processing and Dissemination System (EPDS)), the Enhanced Tactical Users Terminal (ETUT), the Forward Area Support Terminal (FAST) and the Tactical High Mobility Terminals (THMTs) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF, S-Band and terrestrial comms packages, and, with the exception of FAST, contained in shelters or vans, with a dedicated primemover and system operators. Fielding of a new system, the Mobile Integrated Tactical Terminal (MITT), began in July 1993, will add an additional 11 systems before the end of fielding in FY96. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES) which are funded under the Defense Airborne Reconnaissance Office (DARO), PE 0305154D Defense Airborne Reconnaissance Program (DARP).</p> <p>Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II, and the Army's TENCAP Master Plan.</p> <p>Justification: The FY96/97 funds will be used to procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems</p>									
DD Form 2454	P-1 Shopping List Item No. 62			Page No. 1 of 3			EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME TACTICAL EXPLOITATION OF NAT'L CAPABILITIES (TENCAP) (TIARA) (BZ7315)						C. MANUF. Numerous See 5a.	D. DATE February 1995		
	IDENT CODE	FY 94		Total Cost	FY 95			FY 96			Unit Cost	Qty	Total C
		Unit Cost	Qty		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost			
WEAPON SYSTEM COST ELEMENTS													
Communications Upgrades:													
a. SUCCESS Radio (COMSEC , DAMA, TIBS PPU)		120	40	4800	118	20	2367	118	20	2370			
b. MITT/FAST/ETUT (Chariot, SLDCOM)		155	6	930	155	3	465	155	3	465	151	12	1807
c. Workstations (TENCAP Guard Processor Upgrades)		75	20	1499	75	25	1804	75	24	1782			
d. TRIPPS		25	20	500									1807
TOTALS				7729			4636			4617			
CHARIOT: Mobile S-Band Transceiver Terminal (Name changed from ROTERM to Chariot)													
COMSEC: Communications Security													
DAMA: Demand Assigned Multiple Access for UHF Satellite Communications													
PPU: Protocol Processing Unit													
SLDCOM: Satellite Launch Dispenser Communications													
TENCAP Guard Processor is Multi-level Security System													
TIBS: Tactical Information Broadcast Sys													
TRIPPS: Theater Rapid Intelligence Package Protection System													
TOTAL													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995
B. APPROPRIATION / BUDGET ACTIVITY										
Other Procurement, Army 2 - Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
TAC EXPLOIT OF NAT'L CAPA (TENCAP) (TIARA) (BZ7315)										
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
SUCCESS RADIO										
FY94	CLASSIFIED	CLASSIFIED	2Q94	3Q94	40	120,000	YES			
FY95	CLASSIFIED	CLASSIFIED	2Q95	3Q95	20	118,350	YES			
FY96	CLASSIFIED	CLASSIFIED	2Q96	2Q97	20	118,500	YES			
MITT/FAST										
FY94	CLASSIFIED	CLASSIFIED	2Q94	2Q95	6	155,000	YES			
FY95	CLASSIFIED	CLASSIFIED	2Q95	2Q96	3	155,000	YES			
FY96	CLASSIFIED	CLASSIFIED	2Q96	2Q97	3	155,000	YES			
FY97	CLASSIFIED	CLASSIFIED	2Q97	2Q98	12	151,000	YES			
WORKSTATION										
FY94	CLASSIFIED	CLASSIFIED	2Q94	2Q95	20	75,000	YES			
FY95	CLASSIFIED	CLASSIFIED	2Q95	2Q96	25	75,000	YES			
FY96	CLASSIFIED	CLASSIFIED	2Q96	2Q97	24	75,000	YES			
TRIPPS										
FY94	CLASSIFIED	CLASSIFIED	1Q95	3Q95	20	25,000	YES			
D. Remarks:										
COMSEC: Communications Security										
DAMA: Demand Assigned Multiple Access for UHF Satellite Communication										
TIBS: Tactical Information Broadcast System										
PPU: Pre-Processor Unit										
CHARIOT: Mobile S-Band Transceiver Terminal										
SLDCOM: Satellite Launch Dispenser Communications										
TENCAP Guard Processor is Multi-Level Security System										
TRIPPS: Theater Rapid Intelligence Package Protection System										

BUDGET ITEM JUSTIFICATION SHEET							February-1995	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
Other Procurement, Army 2 - Communications and Electronics Equipment			Joint Tactical Ground Station (BZ8410)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	0	0	0	0	0	0	0/0	0/0
COST (In Millions)	\$ 0.0	\$ 0.0	\$ 30.9	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0

DESCRIPTION: The Joint Tactical Ground Station (JTGS) provides an in-theater capability for receipt, processing and dissemination of warning and cueing data on missile launches and other major tactical events from space based sensors within the ground station field of view. By being located in-theater, the system improves the warning and cueing response time and eliminates several single-point failure communications relay nodes. It improves the target location accuracy of TBM launch sites in order to facilitate joint precision attacks by deep strike weapons and provides more accurate impact point prediction to support both active and passive defense. The warning and cueing information will be disseminated via Tactical Information Broadcast system (TIBS), Tactical Related Application (TRAP) and other existing in-theater communications nets. The system consists of a shelter with processors and communication equipment, satellite receiver antennas and power generator equipment.

JUSTIFICATION: The FY96 funds will be used to procure five JTGS units and conduct first article test. The JTGS improves the reporting time lines on Tactical Ballistic Missile (TBM) launches because warning reports originate in-theater and are transmitted using tactical communications such as TRAP and TIBS, thus eliminating the use of over-burdened command and control communications lines from CONUS to transmit TBM warning messages. The in-theater capability also reduces the likelihood of single point failures in communications.

ID Code B

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/ No OPA 2 - Communications and Electronics Equipment		B. Weapon Model/Series/Popular Name JOINT TACTICAL GROUND STATION (BZ8410)				C. Manuf Numbers	D. Date Feb-1995
Weapon System Cost Elements	IDENT CODE	FY94		FY95		FY96		Unit Cost	FY97
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost		
PRIME CONTRACTOR HARDWARE	B					4,230*	16,920		
PRIME CONTRACTOR ENGINEERING							4,426		
PRIME CONTRACTOR DATA							176		
PRIME CONTRACTOR FIRST ARTICLE TEST							219		
GOVERNMENT PROG MANAGEMENT							1,400		
GOVERNMENT FURNISHED EQPT							4,053		
CONTRACTOR ENGINEERING							1,800		
GOVERNMENT ENGINEERING							1,920		
TOTAL							30,914		

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Exhibit P-5

*Quantity of 5 includes refurbishment of 2 EMD units.
Refurbishment cost is estimated at one half of new unit.

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE: Feb-95			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronic Equipment			C. P-1 ITEM NOMENCLATURE JOINT TACTICAL GROUND STATION (BZ9410)							
LINE NUMBER/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAILABLE NOW	SPEC REVISIONS REQUIRED	IF YES, WHEN AVAILABLE
JTAGS/FY96	Aerojet Azusa, Ca	C/CPIF	SSDC	Exercise Option Feb 96	Sep 96	5 *	4,230,000	Yes	No	
D. REMARKS:										
JTAGS: JOINT TACTICAL GROUND STATION										

[illegible][illegible]

PROCUREMENT LEAD TIME (MONTHS)			
	ADMIN LEAD TIME		TOTAL AFTER 1 OCT
	BEFORE 1 OCT	AFTER 1 OCT	
INITIAL	0	11	7
REORDER			18

REMARKS: Everette production on/on - Feb 14

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CODE "B" ITEM DESCRIPTION				DATE February-1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 2 - Communications and Electronic Equipment				P-1 ITEM NOMENCLATURE JOINT TACTICAL GROUND STATION (BZ8410)			
1. CURRENT DEVELOPMENT AND TEST STATUS							
TECHNICAL/OPERATIONAL TESTING				SCHEDULE DATE			
				CURRENT 1	LAST REPORTED 2	REASON FOR DELAY 3	
PLAN/ACTUAL				Apr/Oct 95	Feb/Aug 95	Delay in shelter deliveries and design completion	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE Feb-96							
3. EQUIPMENT ITEM(S) TO BE REPLACED NOT APPLICABLE.							
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED NOT APPLICABLE. 0604766A/D113							
5. DEVELOPMENT CONTRACT INFORMATION							
CONTRACTOR NAME 1	PLANT LOCATION 2	COMPONENT 3	THROUGH FY93 4	FY94 5	FY95 6	FY96 7	BEYOND 8
Aerojet Elect Systems Div	1	JTAGS	0.0	13.9	2.9	0.0	0.0
			0.0	13.9	2.9	0.0	0.0
TOTAL RDT&E FUNDING							
6. REMARKS							
Exercise Production Options		Feb-96					
Deliver 1st Production Unit		Sep-96					
Conduct First Article Test		Sep-Nov 96					
Deliver 2nd Production Unit		Nov-96					
Other Milestones:		Feb-97					

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EXHIBIT P-19

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995							
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:							
Other Procurement, Army 2 - Comm and Electronics Equipment		TROJAN (TIARA) (BA0326)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (IN MILLIONS)		11.6	22.2	19.3	3.7	4.1	4.4	4.9	5.1
DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications to include voice, data, and facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.									
JUSTIFICATION: FY96 provides for collection and processing system upgrades; 10 SPIRIT II systems to support the combat commanders with mission critical intelligence information by voice and high capacity digital traffic at Army Corps and Division levels and upgrades to the automated switch. FY97 provides for collection and processing system upgrades; and dissemination enhancements to the TROJAN SPIRIT II systems.									

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P-1 SHOPPING LIST ITEM NO. 64

ITEM No. 64

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WEAPON SYSTEM COST ANALYSIS				A. Appropriation/Budget Activity Title/No. OTHER PROCUREMENT: ARMY 2 COMINT & ELEC EQUIP				B. WEAPON MODEL/SERIES/POPULAR NAME TROJAN (TIARA) (BA0326)				C. MANUFACTURER NAME PLANT CITY/STATE/LOCATION				D. DATE: February 1995			
EXHIBIT (P-5)				FY94				FY95				FY96				FY97			
Weapon System Cost Elements	Ident. code	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
TROJAN Special Purpose Receiving System (TIARA) (BA0331)	A	VAR		3,122	VAR		3,081	VAR		3,228	VAR		3,202	VAR		3,202			
TROJAN SPIRIT Mods (TIARA) (BA0332)	A	VAR	6	1,897	VAR	7	1,707	0		0	0		0	0		0			
TROJAN SPIRIT Terminals (TIARA) (BA0333)	A	VAR	3	6,583	VAR	10	17,371	VAR	10	16,085	VAR		505	VAR		505			
TOTAL				11,602			22,159			19,313			3,707			3,707			

P-1 SHOPPING LIST ITEM NO. 64

Exhibit P-5 Weapon System Cost Analysis

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995							
P-1 ITEM NOMENCLATURE:									
TROJAN SPECIAL PURPOSE RECEIVING SYSTEM (TIARA) (BA0331)									
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (IN MILLIONS)		3.1	3.1	3.2	3.2	3.6	3.9	4.9	5.1
DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts. TROJAN consist of four subsystems: remote receiver groups, located at border sites; monitor control groups to include analyst workstation groups, located at unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions. JUSTIFICATION: FY96 and FY97 provides for collection and processing system upgrades.									

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WEAPON SYSTEM COST ANALYSIS				UNCLASSIFIED				D. DATE:			
EXHIBIT (P-5)				A. Appropriation/Budget Activity Title/No. Other Procurement, Army 2 - Comm and Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME TROJAN SPECIAL PURPOSE RECEIVING SYS (TIARA) (BA0331)			
Weapon System Cost Elements	Ident. code	FY94		FY95		FY96		FY97		FY98	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
HARDWARE	A	VAR		2,447		VAR		2,406		VAR	
SUPPORT ENGINEERING SPT IN-HOUSE CONTRACT				500 175				500 175			
TOTAL				3,122				3,081			
								2,553			
								VAR			
										2,527	
										500 175	
											3,202

Exhibit P-5 Weapon System Cost Analysis

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P-1 SHOPPING LIST ITEM NO. 64

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					A. DATE: February 1995					
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement Army 2 - Comm and Electronics Equipment					C. P-1 ITEM NOMENCLATURE TROJAN SPECIAL (BA0331) PURPOSE RECEIVING SYSTEM (TIARA)					
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
HARDWARE FY94	ANDREWS-SICOM GARLAND, TX	C/FP (OPTION)	CECOM	DEC 93	JUN 94	VAR	VAR	YES	NO	
HARDWARE FY94	HP ROCKVILLE, MD	C/FP (OPTION)	CECOM	JAN 94	JUL 94	VAR	VAR	YES	NO	
HARDWARE FY94	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	FEB 94	JUN 94	VAR	VAR	YES	NO	
HARDWARE FY94	ANTENNA PRODS MINERALWELLS, TX	C/FP (OPTION)	CECOM	APR 94	OCT 94	VAR	VAR	YES	NO	
HARDWARE FY94	CONVERSE WOODBURY, NY	C/FP	CECOM	JUN 94	DEC 94	VAR	VAR	YES	NO	
HARDWARE FY95	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	NOV 94	FEB 95	VAR	VAR	YES	NO	
HARDWARE FY95	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	MAR 95	SEP 95	VAR	VAR	YES	NO	
HARDWARE FY96	CONVERSE WOODBURY, NY	C/FP (OPTION)	CECOM	NOV 95	APR 96	VAR	VAR	YES	NO	
HARDWARE FY96	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	JAN 96	JUN 96	VAR	VAR	YES	NO	
HARDWARE FY96	HP ROCKVILLE, MD	C/FP (OPTION)	CECOM	JAN 96	JUN 96	VAR	VAR	YES	NO	
HARDWARE FY96	ANTENNA PRODS MINERALWELLS, TX	C/FP (OPTION)	CECOM	FEB 96	JUL 96	VAR	VAR	YES	NO	
HARDWARE FY96	ANDREWS-SICOM GARLAND, TX	C/FP (OPTION)	CECOM	MAR 96	SEP 96	VAR	VAR	YES	NO	
HARDWARE FY96	TBS	C/FP (OPTION)	CECOM	APR 96	OCT 96	VAR	VAR	YES	NO	
D. REMARKS: PECULARITIES OF INDIVIDUAL SYSTEM MISSION AND FIELDING LOCATION REQUIRE EACH TROJAN SUBSYSTEM TO BE UNIQUE WITH COMPATIBLE AND INTEROPERABLE HARDWARE AND SOFTWARE. HP = HEWLETT PACKARD ANTENNA PROD = ANTENNA PRODUCTS ESI = ELECTROSPACE SYSTEMS INCORPORATED										

ESI = ELECTROSPACE SYSTEMS INCORPORATED

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EXHIBIT P-5A
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995		
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment										C. P-1 ITEM NOMENCLATURE TROJAN SPECIAL PURPOSE RECEIVING SYSTEM (TIARA) (BA0331)		
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		
HARDWARE FY97	CONVERSE WOODBURY, NY	C/FP (OPTION)	CECOM	NOV 96	APR 97	VAR	VAR	YES	NO			
HARDWARE FY97	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	JAN 97	MAY 97	VAR	VAR	YES	NO			
HARDWARE FY97	ANTENNA PRODS MINERALWELLS, TX	C/FP (OPTION)	CECOM	FEB 97	AUG 97	VAR	VAR	YES	NO			
HARDWARE FY97	TBS	C/FP(OPTION)	CECOM	APR 97	OCT 97	VAR	VAR	NO				
D. REMARKS: PECULARITIES OF INDIVIDUAL SYSTEM MISSION AND FIELDING LOCATION REQUIRE EACH TROJAN SUBSYSTEM TO BE UNIQUE WITH COMPATIBLE AND INTEROPERABLE HARDWARE AND SOFTWARE. HP = HEWLETT PACKARD ESI = ELECTROSPACE SYSTEMS INCORPORATE ANTENNA PRODS = ANTENNA PRODUCTS												

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995							
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:							
Other Procurement, Army 2 - Comm and Electronics Equipment		TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (IN MILLIONS)		6.6	17.4	16.1	0.5	0.5	0.5	0	0
DESCRIPTION: The TROJAN SPIRIT II is collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations. TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; HF/MSE/CTT (receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment. JUSTIFICATION: FY96 provides for 10 TROJAN SPIRIT II systems to support the combat commanders with mission critical intelligence information by voice and high capacity digital traffic at Army Corps and Division levels. TROJAN SPIRIT II supports the Intelligence and Electronic Warfare Battlefield Operating system in conducting split/multi-based operations. FY96 also provides upgrades to the automated switch. FY97 provides dissemination enhancements to the TROJAN SPIRIT II systems.									

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WEAPON SYSTEM COST ANALYSIS				A. Appropriation/Budget Activity Title/No. Other Procurement, Army 2 - Comm and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME TROJAN SPIRIT -TERMINALS (TIARA) (BA0333)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE February 1995	
EXHIBIT (P-5)				FY94		FY95		FY96		FY97	
Weapon System Cost Elements	Ident. code	FY94		FY95		FY96		FY97		FY98	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
HARDWARE	A	VAR	3	VAR	10	VAR	10	VAR	10	VAR	10
				6,583		17,371		16,085		505	
TOTAL			3	6,583	10	17,371	10	16,085	10	505	505

Exhibit P-5 Weapon System Cost Analysis

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						A. DATE: February 1995				
B. APPROPRIATION/BUDGET ACTIVITY:						C. P-1 ITEM NOMENCLATURE				
Other Procurement, Army 2 - Comm and Electronics Equipment						TROJAN SPIRIT - TERMINALS (TIARA)				
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL (BA0333)
HARDWARE FY94	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	MAY 84	NOV 84	3	VAR	YES	NO	
HARDWARE FY95	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	OCT 94	APR 95	6	VAR	YES	NO	
HARDWARE FY95	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	FEB 95	AUG 95	4	VAR	YES	NO	
HARDWARE FY96	ESI RICHARDSON, TX	C/FP (OPTION)	CECOM	OCT 95	APR 96	10	VAR	YES	NO	
HARDWARE FY97	TBS	C/FP	CECOM	*DEC 96	JUN 97	VAR	VAR	**NO	NO	

D. REMARKS:

ESI = ELECTROSPACE SYSTEMS INCORPORATED

*DEC 96 CONTRACT AWARD IS FOR ENHANCEMENTS NOT PRODUCTION

**SPECS WILL BE AVAILABLE FEB 96

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(BA0333)

(BA0333)

(BA0333)

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995					
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:					
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)					
QUANTITY		FY94	FY95	FY96	FY97	FY98	FY00
COST (IN MILLIONS)		15.8	15.2	19.5	16.8	3.1	6.7
							13.7
DESCRIPTION:							
(U) This is a roll line containing the following modification efforts.							
MODS FOR IEW HVY FORCE SYS (TIARA)							
(BZ9751):							
TRAILBLAZER Vehicle Reconfiguration							
MC#1-92-07-0030							
TRAILBLAZER DTSR/Self Loc MC#1-85-07-0496							
TRACKWOLF Threat Update MC# 1-93-07-0009							
		FY94	FY95	FY96	FY97	FY98	FY98
		9.195	4.559	4.607	4.568	3.058	3.058
		(4.298)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
		(0.120)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
		(4.777)	(4.559)	(4.607)	(4.568)	(3.058)	(3.058)
MODS FOR IEW LT FORCE SYS (TIARA) BZ9752:							
TEAMMATE Interop with QUICKFIX							
MC#1-90-07-0011							
SINGGARS Integ/Installation MC#1-91-07-0003							
TEAMMATE Tactical Proficiency Trainer (TPT)							
MC#1-93-07-0002							
		6.629	10.626	14.884	12.263	0.000	0.000
		(0.644)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
		(1.030)	(9.074)	(14.884)	(12.263)	(0.000)	(0.000)
		(4.955)	(1.552)	(0.300)	(0.000)	(0.000)	(0.000)
TOTAL		15.824	15.185	19.491	16.831	3.058	

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MODIFICATION INSTALLATION SUMMARY
(\$ IN MILLIONS)

DATE: February 1995
SSN: BZ9750

<u>System / Modification</u>	<u>FY94 & Prior</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>TOTAL</u>
TRAILBLAZER 5 TON MC	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
TRAILBLAZER DTSR/SL MC	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
TRACKWOLF MC	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
TEAMMATE TPT MC	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.3
SINGGARS MC	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.8
<u>TOTAL FOR MOD IN-SVC (INTEL SPT)(TIARA)</u>	<u>0.4</u>	<u>0.2</u>	<u>0.6</u>	<u>0.6</u>	<u>0</u>	<u>0</u>	<u>0.0</u>	<u>0.0</u>	<u>1.8</u>

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MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995														
MODIFICATION TITLE:																
MODS FOR IEW HVY FORCE SYSTEMS, VEHICLE RECONFIGURATION MC #1-92-07-0030 (BZ9751)																
MODELS OF SYSTEMS AFFECTED: TRAILBLAZER, SSN: VO7300																
DESCRIPTION/JUSTIFICATION: The current TRAILBLAZER M1015A1 Tracked IEW System Carrier was developed and initial production emerged from a 1976 HQDA decision to configure Armored/Mechanized Infantry Division Signals Intelligence (SIGINT) and Electronic Warfare (EW) systems on a tracked carrier. Operational experience since the fielding of these systems has shown that the modified M548 carrier, the M1015, is a significant detractor to the objective operational readiness of the entire system. Due to the M1015 performance in DESERT STORM, the Army terminated plans to modernize the tracked carrier for IEW systems and redirected the materiel change funds to a program for placing the mission equipment on a M656 five-ton wheeled carrier. The TRAILBLAZER system supports the division and brigade commander's target and situation development, and force protection requirements through high capacity, ground-based communications intercept, processing, and direction finding. TRAILBLAZER materiel change transitions TRAILBLAZER from a unique tracked vehicle to standard tactical wheeled vehicles, enhancing deployability and supportability.																
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																
FY92 CONTRACT AWARD (20 EACH) FY93 CONTRACT AWARD (20 EACH) FY94 CONTRACT OPTION (20 EACH) TESTS (stability, maintains DF accuracy, vibration, system acceptance) FIRST KIT APPLIED LAST KIT APPLIED		<table border="1"><thead><tr><th>PLANNED MONTH/YEAR</th><th>ACTUAL MONTH/YEAR</th></tr></thead><tbody><tr><td>JAN92</td><td>JAN92</td></tr><tr><td>FEB93</td><td>FEB93</td></tr><tr><td>JAN94</td><td>JAN94</td></tr><tr><td>MAY93</td><td>MAY93</td></tr><tr><td>OCT 93</td><td>OCT 93</td></tr><tr><td>NOV94</td><td>SEP94</td></tr></tbody></table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	JAN92	JAN92	FEB93	FEB93	JAN94	JAN94	MAY93	MAY93	OCT 93	OCT 93	NOV94	SEP94
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR															
JAN92	JAN92															
FEB93	FEB93															
JAN94	JAN94															
MAY93	MAY93															
OCT 93	OCT 93															
NOV94	SEP94															

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MODIFICATION TITLE: TRAILBLAZER 5 TON

FINANCIAL PLAN:

(\$ in Millions)

DATE February 1995

RDT&E	FY PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT																				
KIT QUANTITY	60	11.0																	60	11.0
Installation Kits																				0.0
Installation Kit Nonrecurring Equipment																				0.0
Equipment Nonrecurring																				0.0
Engineering Change Orders																				0.0
Data																				0.9
Training Equipment																				0.6
Support Equipment																				0.0
Other																				0.0
PM Admin																				0.0
Fielding																				0.2
Interim Contractor Support																				0.6
Installation of Hardware																				0.0
FY93 Eqpt (40 kits)	40	0.2																		0.0
FY94 Eqpt (20 kits)	20	0.1																		0.2
FY95 Eqpt (kits)																				0.1
FY96 Eqpt (kits)																				0.0
FY97 Eqpt (kits)																				0.0
FY98 Eqpt (kits)																				0.0
FY99 Eqpt (kits)																				0.0
FY00 Eqpt (kits)																				0.0
FY(TC) Eqpt (kits)																				0.0
Total Installation Cost (Subtotal)	60	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	60	0.3
TOTAL PROCUREMENT COST		13.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	60	13.6
METHOD OF IMPLEMENTATION:																				
ADMINISTRATIVE LEADTIME:																				
Contract Teams (MVP and Toole Army Depot)																				
CONTRACT DATE: FY 94: JAN94																				
DELIVERY DATE: FY 94: JUN94																				
FY 95: FY 96: FY 97: FY 98: FY 99: FY 00: FY 01: MONTHS																				
INSTALLATION SCHEDULE:																				
FY 93 FY 94 FY 95 FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 TOTAL																				
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4																				
15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15																				
60																				
60																				

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EXHIBIT P-3A

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MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995												
MODIFICATION TITLE: TRAILBLAZER DTSR/SELF LOCATION														
MC# 1-85-07-0496 (BZ9751)														
MODELS OF SYSTEMS AFFECTED: TRAILBLAZER, AN/TSQ-138, SSN: V07300														
DESCRIPTION/JUSTIFICATION: TRAILBLAZER's analog tape recorders was replaced by a digital recorder system which allows the operator random access to the audio information. As an example of the practical application of this tool, key words and phrases can be clarified immediately without losing live audio. Simultaneous record and playback functions allow direct access to any individual file on the storage media, and automatic input and output of recording time and title. This Materiel Change also upgrades TRAILBLAZER's self-location subsystem by the addition of an automated device, which is a NAVSTAR/Global Positioning System (GPS). The Improved self-location will automatically (independent of maps or operator capabilities) and accurately identify the system location. Also included in this Materiel Change are personality modules which are Test Program Sets (TPSs) for five circuit card assemblies in support of the TRAILBLAZER maintenance philosophy and the signal analyzer which is another Line Replaceable Unit (LRU) that is being fielded to the TRAILBLAZER system. These software and communications improvements provide TRAILBLAZER greater battlefield versatility and lethality.														
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Work is being accomplished in conjunction with TEAMMATE DTSR Materiel Change #1-84-07-0486 and TEAMMATE self location Materiel Change # 1-84-07-0484. FY90 exercised contract option for 25 each DTSR's. FY90 also awarded DTSR/GPS Integration contract 3Q90. FY91 contract option for 20 each DTSR's was not exercised due to urgent DESERT STORM requirement for TIGER Relay Systems. Continued program support for DTSR Integration, GFE maintenance, and fielding support for signal analyzer. FY92 continued program support for DTSR Integration and Test Program Set (TPS) Circuit Card Assembly Diagnostics and fielding support for signal analyzer. FY93 continued program support for DTSR Integration and fielding signal analyzer. FY88 CONTRACT AWARD (Planned award not achieved due to protest on contract award) FY90 CONTRACT OPTION AWARDED MATERIEL FIELDING AGREEMENT/MOD. WORK ORDER FIELDING NEGOTIATED FIRST KIT APPLIED LAST KIT APPLIED		<table border="1"><thead><tr><th>PLANNED MONTH/YEAR</th><th>ACTUAL MONTH/YEAR</th></tr></thead><tbody><tr><td>AUG 88</td><td>JAN 89</td></tr><tr><td>DEC 89</td><td>DEC 89</td></tr><tr><td>JUN 93</td><td>JUN 93</td></tr><tr><td>JAN 94</td><td>JAN 94</td></tr><tr><td>OCT 94</td><td>OCT 94</td></tr></tbody></table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	AUG 88	JAN 89	DEC 89	DEC 89	JUN 93	JUN 93	JAN 94	JAN 94	OCT 94	OCT 94
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR													
AUG 88	JAN 89													
DEC 89	DEC 89													
JUN 93	JUN 93													
JAN 94	JAN 94													
OCT 94	OCT 94													

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EXHIBIT P-3A

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MODIFICATION TITLE: TRAILBLAZER DTSR MC

FINANCIAL PLAN:

(\$ in Millions)

DATE February 1995

[illegible]

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EXHIBIT P-3A

UNCLASSIFIED

MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995																						
MODIFICATION TITLE: MODS FOR IEW HVY FORCES, TRACKWOLF THREAT UPDATE MC# 1-93-07-0009 (BZ9751)																								
MODELS OF SYSTEMS AFFECTED: TRACKWOLF, AN/TSQ-152, SSN: V18200																								
DESCRIPTION/JUSTIFICATION: TRACKWOLF is a High Frequency (HF) Skywave Communications Intelligence (COMINT) system which supports Echelons Above Corps (EAC) commanders by supplying intelligence and targeting information to theater level All Source analysis System (ASAS). Materiel changes will provide National and Army Intelligence community with a collection asset better equipped to meet the requirements of a rapidly changing and highly diverse HF environment. There are number of enhancements which have been identified to keep the unit abreast of modern technological advances and changing threat. Included changes are the addition of satellite communications equipment for the Direction Finding (DF) network, the addition of interfaces to non-Army HF DF systems, hardware replacement of 286 computers with 486 computers, install priority DF system, upgrade databases and software changes which allow the operator to expedite processing time. Materiel changes will provide analytical operators more extensive data base management functionality and improved in-garrison and field reporting capability; collection operators increased collection and processing capabilities; provide increased communication, flexibility and handling throughout the DF network.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Nine modifications are planned: PEO APPROVED MATERIEL CHANGE		<table border="1"> <thead> <tr> <th>PLANNED MONTH/YEAR</th> <th>ACTUAL MONTH/YEAR</th> </tr> </thead> <tbody> <tr> <td>OCT 93</td> <td>OCT 93</td> </tr> <tr> <td>JUN 94</td> <td>JUN 94</td> </tr> <tr> <td>FEB 95</td> <td></td> </tr> <tr> <td>FEB 95</td> <td></td> </tr> <tr> <td>MAR 95</td> <td></td> </tr> <tr> <td>AUG 96</td> <td></td> </tr> <tr> <td>AUG 96</td> <td></td> </tr> <tr> <td>MAR 95</td> <td></td> </tr> <tr> <td>JUL 96</td> <td></td> </tr> <tr> <td>JUL 96</td> <td></td> </tr> </tbody> </table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	OCT 93	OCT 93	JUN 94	JUN 94	FEB 95		FEB 95		MAR 95		AUG 96		AUG 96		MAR 95		JUL 96		JUL 96	
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR																							
OCT 93	OCT 93																							
JUN 94	JUN 94																							
FEB 95																								
FEB 95																								
MAR 95																								
AUG 96																								
AUG 96																								
MAR 95																								
JUL 96																								
JUL 96																								

1. Add satellite communications capability for DF Flashnet to include automatic frequency management for HF communications, improve audio recorder, add receiver squelch control.

CONTRACT AWARD DATE
 FIRST KIT APPLIED
 LAST KIT APPLIED

2. Add direct interfaces to non-Army HF DF systems, SSP-S and WARRIOR.

CONTRACT AWARD DATE
 FIRST KIT APPLIED
 LAST KIT APPLIED

3. Add automatic DF tipping to the Army and NSA HF analysis systems.

CONTRACT AWARD DATE
 FIRST KIT APPLIED
 LAST KIT APPLIED

P-1 SHOPPING LIST
 ITEM No. 65
 UNCLASSIFIED

EXHIBIT P-3A

UNCLASSIFIED

MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995
MODIFICATION TITLE: MODS FOR IEW HVY FORCES, TRACKWOLF THREAT UPDATE MC# 1-93-07-0009 (BZ9751)		
MODELS OF SYSTEMS AFFECTED: TRACKWOLF, ANT/SQ-152, SSN: V18200		
DESCRIPTION/JUSTIFICATION: To provide continuation page for TRACKWOLF Modification Status/Milestones.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		
4. FY96 Add Split DF Operations Capability. CONTRACT AWARD DATE FIRST KIT APPLIED LAST KIT APPLIED		OCT 95 JUN 96 JUN 96
5.6.7. FY97 Redesign DF Operator Duties; add DF queue and add priority scheme for emitter location requests. CONTRACT AWARD DATE FIRST KIT APPLIED LAST KIT APPLIED		OCT 96 JUN 97 AUG 97
8.9. FY98 Upgrade computers to state of the art computers, and upgrade to current versions of CSU software. CONTRACT AWARD DATE FIRST KIT APPLIED LAST KIT APPLIED		OCT 97 JUN 98 JUL 98

P-1 SHOPPING LIST

Z 754 NO 65

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EXHIBIT P-3A

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UNCLASSIFIED

MODIFICATION TITLE: TRACKWOLF THREAT UPDATE

DATE: September 1994

FINANCIAL PLAN:

(\$ in Millions)

RDT&E	FY PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT KIT QUANTITY	1	3.9	2	4.1	1	4.1	3	4.0	2	2.5									9	0.0
Installation Kits																				
Installation Kit Nonrecurring Equipment																				18.6
Equipment Nonrecurring																				0.0
Engineering Change Orders																				0.0
Data																				0.0
Training Equipment		0.2		0.2		0.1		0.1		0.2										0.8
Support Equipment																				0.0
Other																				0.0
PM Admin		0.7		0.1		0.2		0.3		0.3										1.6
Fielding				0.1		0.1		0.1		0.1										0.4
Interim Contractor Support																				0.0
Installation of Hardware																				0.0
FY93 Eqpt (kits)			1	0.1															0	0.0
FY94 Eqpt (1 kits)					2	0.1													1	0.1
FY95 Eqpt (2 kits)					1	0.0													2	0.1
FY96 Eqpt (1 kits)							3	0.1											1	0.0
FY97 Eqpt (3 kits)									2	0.0									3	0.1
FY98 Eqpt (2 kits)																			2	0.0
FY99 Eqpt (kits)																			0	0.0
FY00 Eqpt (kits)																			0	0.0
FY(TC) Eqpt (kits)																			0	0.0
Total Installation Cost (Subtotal)	1	0.0	1	0.1	3	0.1	3	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	0.3
TOTAL PROCUREMENT COST		4.8		4.6		4.6		4.6		3.1		0.0		0.0		0.0		0.0	9	21.7

METHOD OF IMPLEMENTATION: CONTRACT DATE: FY 94: JUN 94 FY 95: MAR 95 FY 96: OCT 95 FY 97: OCT 96

DELIVERY DATE: FY 94: FEB 95 FY 95: JUL 96 FY 96: JUN 96 FY 97: JUN 97

ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 21 MONTHS

INSTALLATION SCHEDULE: FY 93 FY 94 FY 95 FY 96 FY 97 FY 98-99 TOTAL

INPUTS 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4

OUTPUTS 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4

UNCLASSIFIED

MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995																
MODIFICATION TITLE: TEAMMATE INTEROPERABILITY WITH QUICKFIX MC #1-90-07-0011 (BZ9752)																		
MODELS OF SYSTEMS AFFECTED: Radio Set, Receiving, AN/TRQ-32, SSN: V07700																		
DESCRIPTION/JUSTIFICATION: TEAMMATE, AN/TRQ32, is a ground based HF/VHF/UHF communications intercept, processing, and Direction Finding (DF) system. QUICKFIX, EH-60A is a helicopter HF/VHF/UHF communications intercept, processing, DF, and jamming system. These two systems are assigned to many of the same units, yet are unable to interoperate in the DF mode to calculate a fix location on communications associated with enemy weapon systems and units. The purpose of this Materiel Change (MC), is to provide for the required interoperability. This MC will allow any of the TEAMMATE systems to act as a "master" station tasking QUICKFIX systems to provide line of bearing information. This will have the effect of elevating the TEAMMATE antenna thus greatly increasing location and range accuracy. Additionally, this materiel change provides the requisite force multiplier to accommodate combat losses to either system and maintain operation when systems are down for maintenance. Current modifications and upgrades will increase safety, provide cross country mobility consistent with the supported forces, improve long distance communications with both indirect fire and other ground/air target location assets, and enhance individual operator efficiency.																		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The proposed acquisition was a sole source modification to the Host Interface Unit (HIU) contract effort underway to support existing and future Intelligence and Electronic Warfare (IEW) systems. By integrating these two efforts, substantial duplication of effort was avoided. CONTRACT AWARD DATE FIRST ARTICLE TECHNICAL TESTING (SOFTWARE AND HARDWARE) IPR/FIELDING DECISION FIRST PROD HARDWARE DELIVERED MFA/MWOFF NEGOTIATE FIRST KIT APPLIED LAST KIT APPLIED		<table border="1"> <thead> <tr> <th>PLANNED MONTH/YEAR</th> <th>ACTUAL MONTH/YEAR</th> </tr> </thead> <tbody> <tr> <td>MAR 91</td> <td>MAR 91</td> </tr> <tr> <td>MAY 93</td> <td>MAY 93</td> </tr> <tr> <td>SEP 93</td> <td>SEP 93</td> </tr> <tr> <td>MAR 94</td> <td>MAR 94</td> </tr> <tr> <td>MAY 93</td> <td>MAY 93</td> </tr> <tr> <td>MAR 94</td> <td>MAR 94</td> </tr> <tr> <td>FEB 96</td> <td></td> </tr> </tbody> </table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	MAR 91	MAR 91	MAY 93	MAY 93	SEP 93	SEP 93	MAR 94	MAR 94	MAY 93	MAY 93	MAR 94	MAR 94	FEB 96	
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR																	
MAR 91	MAR 91																	
MAY 93	MAY 93																	
SEP 93	SEP 93																	
MAR 94	MAR 94																	
MAY 93	MAY 93																	
MAR 94	MAR 94																	
FEB 96																		

P-1 SHOPPING LIST
ITEM NO. 45

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EXHIBIT P-3A

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MODIFICATION TITLE: TEAMMATE/QUICKFIX INTEROP MC

FINANCIAL PLAN:

DATE February 1995

(\$ in Millions)

RD&E	FY PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT																				
KIT QUANTITY	71	15.0																	71	15.0
Installation Kits																				8.4
Installation Kit Nonrecurring		8.4																		0.0
Installed Equipment																				0.0
Installed Equipment Nonrecurring																				0.0
Engineering Change Orders		7.7																		7.7
Data		1.8																		1.8
Training Equipment																				0.0
Support Equipment																				0.0
Other																				0.0
PM Admin		0.9																		0.9
Fielding		1.9																		1.9
Interim Contractor Support																				0.0
Installation of Hardware																				0.0
FY93 Eqpt (kits)																			0	0.0
FY94 Eqpt (kits)																			0	0.0
FY95 Eqpt (kits)																			0	0.0
FY96 Eqpt (kits)																			0	0.0
FY97 Eqpt (kits)																			0	0.0
FY98 Eqpt (kits)																			0	0.0
FY99 Eqpt (kits)																			0	0.0
FY00 Eqpt (kits)																			0	0.0
FY(TC) Eqpt (kits)																			0	0.0
Total Installation Cost (Subtotal)	71	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	71	0.0
TOTAL PROCUREMENT COST		35.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	71	35.7

METHOD OF IMPLEMENTATION:

Contractor will perform integration and installation of this kit at contractor plant prior to fielding.

ADMINISTRATIVE LEADTIME:

2 MONTHS 21 MONTHS

CONTRACT DATE:	FY 94: DEC93	FY 95:	FY 96:
DELIVERY DATE:	FY 94: SEP94	FY 95:	FY 96:

INSTALLATION SCHEDULE:	FY 94				FY 95				FY 96				FY 97				FY98-99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
INPUTS																					71
OUTPUTS																					71

P-1 SHOPPING LIST

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PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

MODS FOR
TEAMMATE/QUICKFIX Interop 1-90-07-0011

MS (TIARA)
(BZ9751)

[illegible]

FACIL- ITY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D-DAY	PROCUREMENT LEAD TIME					REMARKS		
		MISSION REPAIR	1-45	MAXIMUM		ADMIN LEAD TIME	PRIOR 1 OCT	AFTER 1 OCT	MANU- FACTURING TIME	TOTAL AFTER 1 OCT			
1	Magnavox, Ft Wayne, In	1	3	18	12						INITIAL		
						REORDER			1	2	9	11	

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EXHIBIT P-21

UNCLASSIFIED

UNCLASSIFIED

MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995				
MODIFICATION TITLE: TEAMMATE TACTICAL PROFICIENCY TRAINER (BZ9752)						
MODELS OF SYSTEMS AFFECTED: Radio Set, Receiving, AN/TRQ-32, SSN: V07700						
DESCRIPTION/JUSTIFICATION: TEAMMATE Tactical Proficiency Trainer (TM TPT) will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. The TM TPT requirement is documented in Operational Requirements Document (ORD) dated 7 Dec 92 and is required for systems fielded to active and reserve units. TM TPT will greatly enhance operator proficiency training and is an absolute requirement for TEAMMATE systems fielded to the Regional Training Sites Intelligence - SIGINT (RTSI-S) established for the in-garrison training of reserve forces. Concept design envisions two Versa Module Euro-card (VME) circuit cards with cabling and two Computer Software Configuration Items (CSCI). Operationally, the concept design would work by injecting a modulated RF signal into the TEAMMATE's RF Distribution Unit (RFDU) from which simulations could be made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TRQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control, and Reporting capabilities as part of the TEAMMATE systems function. TM TPT will reduce administrative Temporary Duty (TDY) costs associated with training.						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CONTRACT AWARD DATE FIRST PRODUCTION HARDWARE DELIVERED MATRIEL FIELDING AGREEMENT/MOD. WORK ORDER FIELDING PLAN NEGOTIATED FIRST KIT APPLIED LAST KIT APPLIED		<table border="1"><thead><tr><th>PLANNED MONTH/YEAR</th><th>ACTUAL MONTH/YEAR</th></tr></thead><tbody><tr><td>DEC 93 MAY 95 MAY 95 MAY 95 MAY 96</td><td>DEC 93</td></tr></tbody></table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	DEC 93 MAY 95 MAY 95 MAY 95 MAY 96	DEC 93
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR					
DEC 93 MAY 95 MAY 95 MAY 95 MAY 96	DEC 93					

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EXHIBIT P-3A

UNCLASSIFIED

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MODIFICATION TITLE: TEAMMATE TPT MC

DATE February 1995

FINANCIAL PLAN:

(\$ in Millions)

RDT&E	FY PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT KIT QUANTITY	53	2.1	18	0.7															71	2.8
Installation Kits		1.7																	1.7	0.0
Installation Kit Nonrecurring																			0.0	0.0
Installed Equipment																			0.0	0.0
Installed Equipment Nonrecurring		0.2																	0.2	0.6
Engineering Change Orders		0.6																	0.6	0.0
Data																			0.0	0.0
Training Equipment																			0.0	0.0
Support Equipment																			0.0	0.0
Other		0.3																	0.7	0.5
PM Admin				0.4															0.0	0.0
Fielding				0.4															0.5	0.0
Interim Contractor Support					0.1														0.0	0.0
Installation of Hardware																			0.0	0.0
FY93 Eqpt (kits)																			0	0.0
FY94 Eqpt (53 kits)			23	1.0	30	0.1													53	1.1
FY95 Eqpt (18 kits)					18	0.1													18	0.1
FY96 Eqpt (kits)																			0	0.0
FY97 Eqpt (kits)																			0	0.0
FY98 Eqpt (kits)																			0	0.0
FY99 Eqpt (kits)																			0	0.0
FY00 Eqpt (kits)																			0	0.0
FY(TC) Eqpt (kits)																			0	0.0
Total Installation Cost (Subtotal)	0	0.0	23	1.0	48	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	71	1.2
TOTAL PROCUREMENT COST		4.9		2.5		0.3		0.0		0.0		0.0		0.0		0.0		0.0	71	7.7

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

CONTRACTOR installation of software, minor hardware.

2 MONTHS

16 MONTHS

CONTRACT DATE:

FY 94: DEC93

FY 95: NOV94

FY 96:

DELIVERY DATE:

FY 94: MAY95

FY 95: MAR96

FY 96:

INSTALLATION SCHEDULE:

	FY 94				FY 95				FY 96				FY 97				FY 98-99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
INPUTS									5	18	18	18	12								71
OUTPUTS									5	18	18	18	12								71

P-1 SHOPPING LIST

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MODS FOR IEW LIGHT FORCE SYSTEMS (TIARA)
(BZ9751)

EXHIBIT P-21

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MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995				
MODIFICATION TITLE: SINGCGARS INTEG/INSTALLATION INTO IEW SYSTEMS MC #1-91-07-0003 (BZ9752)						
MODELS OF SYSTEMS AFFECTED: AN/TRQ-32 (TEAMMATE); AN/TSQ-138 (TRAILBLAZER) AND AN/PRD-12 (LMRDFS)						
<p>DESCRIPTION/JUSTIFICATION: The Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio System (SINGCGARS) into Intelligence Electronic Warfare (IEW) systems. SINGCGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VR-12 family of single channel radios. Fieldings have been completed in SOUTHCOM and Korea and are scheduled to continue through FY97 until all of the Army is converted to SINGCGARS. SINGCGARS provides effective Electronic Countermeasures (ECCM) by randomly hopping over preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which requires hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VR-12 series radios being replaced. SINGCGARS will be used for voice communications in the TRAILBLAZER, TEAMMATE, and LMRDFS IEW systems. TEAMMATE and LMRDFS will also use SINGCGARS as they currently use the AN/VR-12 for a direction finding sensor link.</p>						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<table border="1"> <thead> <tr> <th>PLANNED MONTH/YEAR</th> <th>ACTUAL MONTH/YEAR</th> </tr> </thead> <tbody> <tr> <td>SEP 93 MAR 94 FEB 96 OCT 95 FEB 96 FEB 99</td> <td>SEP 93 MAR 94</td> </tr> </tbody> </table>	PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR	SEP 93 MAR 94 FEB 96 OCT 95 FEB 96 FEB 99	SEP 93 MAR 94
PLANNED MONTH/YEAR	ACTUAL MONTH/YEAR					
SEP 93 MAR 94 FEB 96 OCT 95 FEB 96 FEB 99	SEP 93 MAR 94					
<p>IN PROCESS REVIEW/PRODUCTION DECISION CONTRACT AWARD FIRST PRODUCTION HARDWARE DELIVERED MATERIEL FIELDING AGREEMENT/MOD.WORK ORDER FIELDING PLAN NEGOTIATED FIRST KIT APPLIED LAST KIT APPLIED</p>						

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MODIFICATION TITLE: SINGARS MC

FINANCIAL PLAN:

DATE February 1995

(\$ in Millions)

RD&E	FY PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT																				
KIT QUANTITY	1	0.7	10	8.7	87	13.9	85	11.3											183	34.6
Installation Kits																				0.0
Installation Kit Nonrecurring																				0.0
Equipment																				0.0
Equipment Nonrecurring																				0.0
Engineering Change Orders		0.1																		0.1
Data		0.1																		0.1
Training Equipment																				0.0
Support Equipment																				0.0
Other																				0.0
PM Admin		0.1		0.1		0.4		0.2												0.8
Fielding		0.0		0.3		0.3		0.3												0.9
Interim Contractor Support																				0.0
Installation of Hardware																				0.0
FY93 Eqpt (kits)																			0	0.0
FY94 Eqpt (1 kits)					1	0.1													1	0.1
FY95 Eqpt (10 kits)					7	0.2													10	0.3
FY96 Eqpt (87 kits)																			87	0.0
FY97 Eqpt (85 kits)																			85	0.0
FY98 Eqpt (kits)																			0	0.0
FY99 Eqpt (kits)																			0	0.0
FY00 Eqpt (kits)																			0	0.0
FY(TC) Eqpt (kits)																			0	0.0
Total Installation Cost (Subtotal)	0	0.0	0	0.0	8	0.3	52	0.5	87	0.0	36	0.0	0	0.0	0	0.0	0	0.0	183	0.4
TOTAL PROCUREMENT COST		1.0		9.1		14.9		12.3		0.0				0.0		0.0			183	36.9

Contractor Teams										16 MONTHS									
METHOD OF IMPLEMENTATION:										PRODUCTION LEADTIME:									
ADMINISTRATIVE LEADTIME:										5 MONTHS									

CONTRACT DATE:	FY 94: MAR94		FY 95: NOV94				FY 96: NOV95				FY 97: NOV96										
DELIVERY DATE:	FY 94: FEB96		FY 95: MAR96				FY 96: MAR97				FY 97: MAR98										
INSTALLATION SCHEDULE:	FY 93		FY 94				FY 95				FY 96				FY 97				FY 98-99		TOTAL
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
INPUTS																					
OUTPUTS																					

EXHIBIT P-3A

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1995				
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement, Army 2 - Communications and Electronics Equipment		ITEMS LESS THAN \$2.0M (TIARA) (BK5278)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)								

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST

DD Form 2454

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995							
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:							
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		MOD OF IN-SVC EQUIP (EW)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (IN MILLIONS)		8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESCRIPTION:		FY94	FY95	FY96					
MODS FOR EW EQUIP (BA6100):									
Host Interface Unit									
MC #1-90-07-0012		8.007	0.0	0.0					
JUSTIFICATION:	<p>The Mods for EW Equip (BA6100) provided FY94 funds for the Host Interface Unit (HIU) - a computer based (software and hardware) unit required to provide the interface between Intelligence and Electronic Warfare (IEW) systems host computers. In order to insure an effective communications and interoperability among the fielded IEW systems, a standard interface between IEW system host computers has been developed and testing initiated. The HIU consolidates and accommodates differing sensor host requirements. The HIU is designed to accommodate both the existing Net Radio Protocol (NRP) and the Industry standard (International Telegraph and Telephone Consultative Committee's (CCITT) X.25 protocol Non-Developmental Item (NDI) software. This approach will result in a multi-use unit capable of initially operating with the Technical Control Analysis Center (TCAC), NRP, and subsequently with the All Source Analysis System (ASAS) (NRP or X.25) in the 1990's era. In addition, the IEW Character Oriented Message Catalog (COMCAT) message formats will be implemented in a common software module. By adding Host Interface Units, the IEW systems will perform message handling, network management, operator support and data link control. The HIU will provide a common interface between the systems and the NRP and data transmission equipment.</p>								

EXHIBIT P-40

PAGE 1 OF 4

 P-1 SHOPPING LIST
 ITEM NO. 67
 UNCLASSIFIED

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MODIFICATION OF WEAPON SYSTEMS		DATE: February 1995
MODIFICATION TITLE: HOST INTERFACE UNIT (HIU) (BA6100)		
MC #1-90-07-0012		
MODELS OF SYSTEMS AFFECTED: TEAMMATE, AN/TRQ-32		
DESCRIPTION/JUSTIFICATION: Mods for EW Equip (BA6100) provided FY 94 funds for the Host Interface Unit (HIU) computer based (software and hardware) unit required for the interface between Intelligence and Electronic Warfare (IEW) systems host computers. The HIU will be integrated into fielded TEAMMATE systems. The HIU unit is designed to accommodate both the existing Net Radio Protocol (NRP) and the Industry standard (International Telegraph and Telephone Consultative Committee (CCITT)) X.25 protocol Non-Developmental Item (NDI) software. In addition, IEW Character Oriented Message Catalog (COMCAT) message formats will be implemented in a common software module. HIU will provide a datalink between the Technical Control Analysis Center (TCAC)/All Source Analysis System (ASAS) and IEW systems. TEAMMATE systems have been in the field since FY 88 and in order to accommodate the HIU Modification Work Order (MWO) Kits, substantial modifications and refurbishments must be made to the shelters (i.e., rewiring, floor repairs, DESERT STORM damage). TEAMMATE upgrades will improve long distance communications with both indirect fire and other ground/air target location assets, and enhance individual operator efficiency.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		PLANNED MONTH/YEAR
<p>RDT&E was conducted in PE 0604270A, Project DL12 and was completed in FY 92. The RDT&E program also provides for the standard module for integration into the developmental Joint STARS Ground Station Module, Ground Based Common Sensor-Light, Ground Based Common Sensor-Heavy, Advanced QUICKFIX systems, and Marine Corps Mobile Electronic Warfare Support System.</p> <p>PEO APPROVED MATERIEL CHANGE COMBAT DEVELOPER (CBTDEV) APPROVED PRODUCTION CONTRACT AWARD FIRST ARTICLE TECHNICAL TESTING (HARDWARE AND SOFTWARE) MATERIEL FIELDING AGREEMENT/MODIFICATION WORK ORDER FIELDING PLAN NEGOTIATED FIRST PRODUCTION HARDWARE DELIVERED FIRST KIT APPLIED LAST KIT APPLIED</p>		ACTUAL MONTH/YEAR
		<p>SEP 90 SEP 90 NOV 92 MAY 93 MAY 93</p> <p>MAR 94 MAR 94 FEB 96</p> <p>SEP 90 SEP 90 NOV 92 MAY 93 MAY 93</p> <p>MAR 94 MAR 94 FEB 96</p>

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ITEM No. 67
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EXHIBIT P-3A

UNCLASSIFIED

MODIFICATION TITLE: HOST INTERFACE UNIT MODELS OF SYSTEMS AFFECTED: ANTRQ-32, TEAMMATE

FINANCIAL PLAN:

DATE February 1995

(\$ in Millions)

	FY PY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		8.9																	71	8.9
PROCUREMENT																				
KIT QUANTITY	71	12.2																		12.2
Installation Kits		1.3																		1.3
Equipment																				0.0
Equipment Nonrecurring		0.2																		0.0
Engineering Change Orders		0.6																		0.2
Data																				0.6
Training Equipment																				0.0
Support Equipment																				0.0
Other																				0.0
PM Admin		0.4																		0.4
Fielding		2.0																		2.0
Interim Contractor Support																				0.0
Installation of Hardware																				0.0
FY93 Eqpt (kits)																			0	0.0
FY94 Eqpt (kits)																			0	0.0
FY95 Eqpt (kits)																			0	0.0
FY96 Eqpt (kits)																			0	0.0
FY97 Eqpt (kits)																			0	0.0
FY98 Eqpt (kits)																			0	0.0
FY99 Eqpt (kits)																			0	0.0
FY00 Eqpt (kits)																			0	0.0
FY(TC) Eqpt (kits)																			0	0.0
Total Installation Cost (Subtotal)	71	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	71	0.0
TOTAL PROCUREMENT COST		16.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	71	25.6
METHOD OF IMPLEMENTATION:																				
Contractor will perform integration and installation of this kit at contractor's plant prior to fielding.																				
ADMINISTRATIVE LEADTIME:																				
4 MONTHS PRODUCTION LEADTIME: 13 MONTHS																				
CONTRACT DATE:																				
FY 94: FEB94 FY 95: FY 96:																				
DELIVERY DATE:																				
FY 94: MAR95 FY 95: FY 96:																				
INSTALLATION SCHEDULE:																				
FY 93 FY 94 FY 95 FY 96 FY 97 FY 98-99 TOTAL																				
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4																				
3 9 9 9 8 9 9 9 6																				
INPUTS																				
3 9 9 9 8 9 9 9 6																				
OUTPUTS																				
3 9 9 9 8 9 9 9 6																				
71																				

P-1 SHOPPING LIST

ITEM NO. 67

EXHIBIT P-3A

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UNCLASSIFIED

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT

P-1 ITEM NOMENCLATURE

Host Interface Unit

(BZ7327)

[illegible]

FACILITY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER 8-DAY		PROCUREMENT LEAD TIME					REMARKS	
		MINIMUM FURNISH	MAXIMUM 1-8-8	REACH MAX AFTER 8-DAY	ADMIN			MANUFACTURING				
					LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	FACTURING TIME	TOTAL AFTER 1 OCT				
1	Magnevox, Ft Wayne, IN	3	4	12				1	2	13	15	Production schedule identifies contractor delivery schedule.
								1	4	13	17	

EXHIBIT P-21

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P-1 SHOPPING LIST
ITEM NO. 67

UNCLASSIFIED

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE Counter-Intelligence/Security Countermeasures (CI/SCM) Equipment (BL5283)								
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY										
COST (In Millions)		2.4	1.8	2.6	1.7	2.4	1.8	2.0	2.9	
Line was titled COM/GEN.										
CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST										
DD Form 2454		P-1 Shopping List Item No. 68			Page No. 1 of 1			EXHIBIT P-40		

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		DATE: FEBRUARY 1995							
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:							
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		FAAD GBS (WK5053)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		-	-	8	15	5	9	3	4
COST (IN MILLIONS)		\$7.9	\$63.9	\$44.7	\$53.3	\$46.8	\$44.4	\$64.3	\$69.0
<p>DESCRIPTION:</p> <p>The Forward Area Air Defense Ground Base Sensor (FAAD GBS), AN/MPQ-64, is the Army's prime contributor of air picture data to construct digitized battlefield information for force protection from hostile air attack and reconnaissance, surveillance and target acquisition (RSTA) and assist in prevention of fratricide. The FAAD GBS accomplishes its primary mission by providing key target data to FAAD weapon systems and battlefield commanders via FAAD command and control (C2) data link or directly from the GBS using Enhanced Position Location Reporting System (EPLRS) or Single Channel Ground Air Radio System (SINGARS) radios. AVENGERS, Bradley Slinger Fighting Vehicles (BSFV) and Man Portable Air Defense teams use FAAD GBS digital information such as target classification, identification, range, azimuth, and elevation to maximize weapon engagement range, and to increase effectiveness at night and during adverse weather conditions. Targets include rotary-wing and fixed wing aircraft, cruise missile, and UAVs.</p> <p>JUSTIFICATION:</p> <p>The Forward Area Alerting Radar (FAAR) was retired in FY90 because of low efficiency and high operating costs. Currently divisional air defense relies on the manual SHORAD control system. Scout teams use binoculars to search for aircraft; the teams then transmit targeting information over voice radios to the air battle management operation center (ARMOC). Information passed over the voice nets is not timely, accurate, nor adequate. The small piece of the battlefield the scouts observe produces significant risks to the division's rear and exposed flanks on the non-linear battlefield. Additionally, the rapidly escalating proliferation of UAVs and RPVs further limits the air defense unit commander's ability to detect, acquire, and destroy these reconnaissance vehicles in critical counter-reconnaissance, intelligence, surveillance, and target acquisition (RISTA) operations. The GBS system will resolve the critical range and visibility constraints resulting from binoculars or "eyeball" target acquisition on the battlefield. FY96 and FY97 funds provide production hardware for fielding to Force Package I units (82ND & 101ST Airborne Divisions, and 1st Cavalry Division), production verification testing, and sustainment of pre-production fielding.</p> <p>(ID CODE: B)</p>									

EXHIBIT P-40

P-1 SHOPPING LIST
ITEM NO. 70

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WEAPON SYSTEM COST ANALYSIS				A. Appropriation/Budget Activity Title/No. Other Procurement, Army-2 Communication & Electronics Equip				B. WEAPON MODEL/SERIES/POPULAR NAME FAAD OBS		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION Hughes Aircraft Company Jackson, MS		D. DATE: February 1995	
EXHIBIT (P-5)				FY 94		FY 95		FY 96		FY 97			
Weapon System Cost Elements	IDENT CODE	Unit Cost	QTY	Total Cost	Unit Cost	QTY	Total Cost	Unit Cost	Total Cost	Unit Cost	QTY	Total Cost	Total Cost
HARDWARE GBS SYSTEMS CONT MFG/ENG/PM LONG LEAD	B				1,201	* 10	12,006 16,018	1,734	13,792 12,405	1,705	15	25,633 13,880	
TRAINING				5,567			15,484		244			712	
ENGINEERING CHANGE ORDERS							1,088		879				
DATA							3,148		1,300			967	
SYSTEM TEST & EVALUATION							539		2,962			263	
INTERIM CONTRACTOR SUPPORT							4,928		3,258			3,031	
ENGINEERING SUPPORT IN-HOUSE CONTRACTS							4,520		4,177			3,316	
FIELDING							200		3			214	
SOFTWARE ENGR							2,209		1,715			1,355	
PROGRAM MANAGEMENT ADMIN IN-HOUSE CONTRACTS				2,333			3,715 (1,896) (1,819)		3,943 (1,832) (2,111)			3,911 (1,642) (2,269)	
TOTAL				7,900			63,855		44,678			53,282	
* Quantities shown above reflect the latest acquisition strategy and are not yet reflected on the P-1.													

 SHOPPING LIST
 ITEM NO. 70
 UNCLASSIFIED

 Exhibit P-5 Weapon System Cost Analysis
 Page 2 of 6 pages

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE		February 1995	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE:								
OTHER PROCUREMENT, ARMY 2 - Communication and Electronic Equipment					FAAD GBS (WK5053)								
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILAB NOW	SPEC REV REQ'D	IF, YES WHEN AVAIL			
*FY 94	HUGHES AIRCRAFT CO. FORREST, MS	FFP/OPT	MICOM	JUL 94	N/A	N/A	N/A	N/A	N/A				
FY 95	HUGHES AIRCRAFT CO. FORREST, MS	FFP/OPT	MICOM	JAN 95	JUL 96	10	1,201**	YES	NO				
FY 96	HUGHES AIRCRAFT CO. FORREST, MS	FFP/OPT	MICOM	JAN 96	MAY 97	8	1,724	YES	NO				
FY 97	HUGHES AIRCRAFT CO. FORREST, MS	FFP/OPT	MICOM	JAN 97	JAN 98	15	1,705	YES	NO				
REMARKS:													
*FY 94 buys long lead items ** Unit cost with FY94 long lead funding included is \$1.757M.													

P-1 SHOPPING LIST Exhibit P-5A Procurement History and Planning
ITEM NO. 70

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APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE
FAAD GBS (WKS053)

OTHER PROCUREMENT, ARMY 2 - Communications and Electronic Equipment

FACILITY NO.	SERV	PROGRAM QUANTITY				ACCEPT PRIOR TO 1 OCT 94	BALANCE DUE AS OF 1 OCT 94	FISCAL YEAR 96												FISCAL YEAR 97												LATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		FY 94	FY 95	FY 96	FY 97			CALENDAR YEAR												CALENDAR YEAR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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REPORT CONTROL SYMBOL DD - COMP (AR) 1092		CODE "B" ITEM DESCRIPTION		DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
OTHER PROCUREMENT, ARMY 2 - Communications and Electronic Equipment		FAAD GBS (WK5053)			
CURRENT DEVELOPMENT AND TEST STATUS:					
a. TECH TEST	PLAN / ACTUAL	CURRENT START DATE	SCHEDULE DATE LAST REPORTED	REASON FOR DELAY	
b. LOGISTICS & MAINTAINABILITY DEMOS	PLAN / ACTUAL	OCT 93	OCT 93		
c. INITIAL OPER TEST & EVAL (IOT&E)	PLAN / ACTUAL	JAN 94	JAN 94		
d. AVAIL DATE OF TECH DATA PKG (TDP)	PLAN / ACTUAL	OCT 94	OCT 94		
OR PERFORMANCE SPECIFICATIONS	PLAN / ACTUAL	JAN 95	SEP 94	Funding Constraint	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: LOW RATE, JANUARY 1995; STANDARD, NOVEMBER 1996					
EQUIPMENT ITEM(S) TO BE REPLACED: AN/MPQ-49 FORWARD AREA ALERTING RADAR (FAAR) WHICH WAS REMOVED FROM ARMY INVENTORY IN 1991.					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: A 3-DIMENSIONAL PHASED ARRAY RADAR SYSTEM WITH THE INHERENT CAPABILITY TO PROVIDE A NEAR REAL TIME AIR PICTURE TO AIR DEFENSE COMMAND AND CONTROL SYSTEMS AND CUE FAAD WEAPONS. REDUCED OPERATIONS AND SUPPORT COST OVER THE FAAR SYSTEM.					
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION:	COMPONENT	THRU FY94	FY95	BEYOND FY 96 BYR
HUGHES AIRCRAFT CO.	FULLERTON, CA	RADAR	56.5	0.3	0.0
TOTAL RDT&E FUNDING			56.5	0.3	0.0
REMARKS:					

EXHIBIT P-19

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BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995									
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT		P-1 ITEM NOMENCLATURE: NIGHT VISION DEVICES (KA3500)									
QUANTITY		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST (IN MILLIONS)		\$87.9	\$80.0	\$77.1	\$81.8	\$52.9	\$72.8	\$96.4	\$121.3		
<p>DESCRIPTION: Night Vision Devices (KA3500) is a summary budget line. There are eight subsidiary lines which are: K36400, Night Vision AN/PVS-7 Aid, K41500 Night Vision, AN/PVS-10 Sniper Night Sight; B53800 Night Vision, AN/PVS-6 MELIOS; K22900, AN/PAS-13 Thermal Wpn Sight; K38400, AN/PLQ-5 Laser Countermeasure System; K30400, GEN II FLIR Horizontal; K38300, LRAS-3 Integration; K30800, Lightweight Video Reconnaissance System (LVRS). (1): The AN/PVS-7B is a lightweight, monocular Night Vision Goggle consisting of an Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-7B is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. The TS-3895 and TS-4348 Test Sets support AN/PVS-7 maintenance. TS-4348 is a lightweight, handheld device used at unit level. TS-3895 is used at DS level to provide performance testing and fault isolation analysis. (2): The AN/PVS-10 is a Third Generation Image Intensification, Non-Developmental Item Night Sight for the M24 Sniper Weapon. (3): The AN/PVS-6 is a lightweight, battery powered, Eyesafe Laser Rangefinder that emits a single Laser light pulse which is reflected off a target and returns to the Rangefinder. The time of flight is measured, converted to range, and displayed in the Eyepiece of the Rangefinder. The AN/PVS-6, which is the only Eyesafe Rangefinder in the U.S. Army Inventory, is the replacement for the Non-Eyesafe AN/GVS-5. The AN/PVS-6 will be utilized by the individual soldier for reconnaissance, navigation and direction of artillery fire. (4): The AN/PAS-13 is a multi purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operational capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscuration and in extremely low light levels such as under triple canopy jungle. (5): The AN/PLQ-5 is a Laser Countermeasure System which is an adjunct to the M16 Rifle. It is designed to detect and counter threat Optical and Electro Optical Systems. The AN/PLQ-5 will enable the soldier to neutralize engagements by enemy armor and helicopters. (6): The GEN II FLIR Horizontal Integration program will horizontally integrate GEN II FLIR technical capability into critical, high priority combat platforms. It will enable the Army to insert key technology into the highest priority forces e.g. M1 Abrams, Armored Gun System, Bradley Fighting Vehicle System. (7): The LVRS is a system designed to capture and transmit still video images through military radios. The two types of LVRS are Outstations, for long range surveillance and Base stations, for headquarters to receive and process signals. (8): The Long Range Advanced Scout Surveillance System (LRAS-3) is a long range multi sensor system for U S Army scouts which will provide the capability to detect, recognize, identify, range and designate potential targets. (9): The 25MM GEN III Tubes are direct replacement for the GEN II Tubes and will upgrade GEN II equipped AN/PVS-4, Individual Weapon Sights.</p>											

JUSTIFICATION:

The Army's ability to effectively conduct "around the clock" combat and effectively "own the night" to help dominate maneuver will be met through the procurement of the AN/PVS-7, AN/PVS-10, AN/PAS-13, AN/PLQ-5 and LVRS. The FY96/97 funds are required for the fifth year of a five year multiyear, multisystem Night Vision Device contract for AN/PVS-7 (the OMNIBUS Contract which buys the AN/PVS-7 includes the AN/AVS-6 Aviator's Night Vision Goggles, K35601), the production contracts for the AN/PAS-13 Thermal Weapon Sight, the AN/PLQ-5 Laser Countermeasure System (LCMS), the AN/PVS-10 Sniper Night Sight and the LVRS.

All procurements are to field Core Contingency Operations Forces.

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P-1 SHOPPING LIST

ITEM NO. 7/

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WEAPON SYSTEM COST ANALYSIS

WEAPON SYSTEM COST ANALYSIS													D. DATE: February 1995	
EXHIBIT (P-5)		A. Appropriations/Budget Activity Title/No. Other Army 2 - Communications & Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME			C. MANUFACTURER NAME PLANT CITY/STATE LOCATION						
		FY94			FY95			FY96			FY97			
Weapon System Cost Elements	IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	
HARDWARE														
Night Vision, AN/PVS-7 AID (K36400)	A	3,261	12,577	41,018		10,000	32,330		10,000	32,330		10,000	32,330	
TEST EQUIPMENT, TS-4348		250	3,242	811										
Night Vision, AN/PVS-10 SNS (K41500)	A	5,842	650	3,797	5,325	403	2,146	5,325	750	3,994				
Night Vision, AN/PVS-6 MELIOS (B53800) *Includes C/VAM P31	A	10,426	3,000	31,278										
Night Vision, AN/PAS-13 TWS (K22900)	B				21,671	922	19,981	21,558	858	18,497	20,222	1,076	21,799	
Night Vision, AN/PLQ-5 LCMS (K38400)	B				162,760	50	8,138	103,900	40	4,156	103,624	125	12,953	
Night Vision, LVRS (K30800)	B			1,800	28,333	60	1,700	28,328	64	1,813	28,328	76	2,153	
AT4 Brackets					4,500	500	2250			3,568				
HTI Training Devices (K30400)														
25MM GEN III Tubes														
SUPPORT														
ECO'S				312			780			356			390	
DATA				447			583			669			598	
SYS TEST & EVAL				791			1,040			642			479	
ENGINEERING SPT														
IN-HOUSE				1,952			2,393			2,343			2,277	
CONTRACT				1,536			1,513			1,477			1,421	
FIELDING				2,447			3,001			4,443			4,915	
INTERIM CONTRACTOR SUPPORT				1,336			1,327			2,333			1,914	
NON RECURRING TOOLING (TWS)				401			2,400			511			521	
PROJECT MANAGEMENT ADMINISTRATION							452							
TOTAL				87,926			80,034			77,132			81,750	

Exhibit P-6 Weapon System Cost Analysis

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ITEM No. 71

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE: February 1995

B. APPROPRIATION/BUDGET ACTIVITY:				Other Procurement,		C. P-1 ITEM NOMENCLATURE:				Night Vision Devices				(KA3500)
Army 2 - Communications & Electronics Equipment														
COST ELEMENTS/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE				
<u>AN/PVS-7</u>														
FY94	ITT, Roanoke, VA	C/FPM-5(3)	CECOM	FEB 94	DEC 95	7,530	3,261	YES	NO					
FY94	Litton, Tempe, AZ	C/FPM-5(3)	CECOM	FEB 94	DEC 95	5,047	3,261							
FY95	ITT, Roanoke, VA	C/FPM-5(4)	CECOM	FEB 95	DEC 96	6,000	3,233							
FY95	Litton, Tempe, AZ	C/FPM-5(4)	CECOM	FEB 95	DEC 96	4,000	3,233							
FY96	ITT, Roanoke, VA	C/FPM-5(5)	CECOM	FEB 96	DEC 97	6,000	3,233							
FY96	Litton, Tempe, AZ	C/FPM-5(5)	CECOM	FEB 96	DEC 97	4,000	3,233							
FY97	TBS	C/FP	CECOM	FEB 97	MAR 98	10,000	3,233							
<u>AN/PVS-10</u>														
FY94	Vero OSD, Garland, TX	C/FP	CECOM	APR 94	JUL 95	650	5,842	YES	NO					
FY95	Vero OSD, Garland, TX	C/FP-O	CECOM	JUL 95	JUL 96	403	5,325							
FY96	Vero OSD, Garland, TX	C/FP-O	CECOM	DEC 95	DEC 96	750	5,325							
<u>AN/PVS-6</u>														
FY94	Vero OSD, Garland, TX	C/FPM-3(3)	CECOM	MAR 94	MAR 96	3,000	10,426	YES	NO					
<u>AN/ELQ-5</u>														
FY95	Lockheed-Sanders, Manchester, NH	C/FPO	CECOM	JUN 95	JUN 96	50	162,760	YES	NO					
FY96		C/FPO	CECOM	MAY 96	APR 97	40	103,900							
FY97		C/FPO	CECOM	OCT 96	SEP 97	125	103,624							
<u>AN/PAS-13</u>														
FY95	Hughes, El Segundo, CA	C/FPO	CECOM	MAR 95	MAR 96	922	21,671	YES	NO					
FY96	Hughes, El Segundo, CA	C/FPO	CECOM	FEB 96	JAN 97	858	21,558							
FY97	Hughes, El Segundo, CA	C/FPO	CECOM	OCT 96	SEP 97	1,078	20,222							
<u>LVR5</u>														
FY95	TBS	C/FP	CECOM	JUN 95	AUG 96	60	28,333	YES	NO					
FY96	TBS	C/FP	CECOM	APR 96	APR 97	64	28,328							
FY97	TBS	C/FP	CECOM	JAN 97	JAN 98	76	28,329							

D. REMARKS:

FY97 AN/PVS-7 could be options against current contract or could be a new contract award, depending on customer requirements between now and FY97.

DD Form 2446-1, JUL 87

Previous editions are obsolete.

P-1 SHOPPING LIST
ITEM NO. 71EXHIBIT P-5A Procurement History and Planning
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UNCLASSIFIED

UNCLASSIFIED

PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE: February 1995

P-1 ITEM NOMENCLATURE

NIGHT VISION AN/PVS-7 AID

(K36400)

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

(K36400)

FACILITY NO.		U/M	SERV	PROGRAM	QUANTITY	ACCEPTANCE BALANCE												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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						FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	FY 46	FY 47	FY 48	FY 49	FY 50	FY 51	FY 52	FY 53	FY 54	FY 55	FY 56	FY 57	FY 58	FY 59	FY 60	FY 61	FY 62	FY 63	FY 64	FY 65	FY 66	FY 67	FY 68	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42

APPROPRIATION/BUDGET ACTIVITY

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

ITEM NUMBER DATE NIGHT VISION AN/PVS-10 SNIPER NIGHT SIGHT (K41500)

(K41500)

[illegible]

P-1 SHOPPING LIST
ITEM NO. 71

UNCLASSIFIED

APPROPRIATION/BUDGET ACTIVITY

SOFTWARE SUBJECT AREA

NIGHT VISION AN/PVS-8 MELIOS

(B53800)

[illegible]

PAGE	FACTORY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			MONTHS TO REPLACE MALE AFTER B&A	PROCUREMENT LEAD TIME					REMARKS
			NUMBER OF TUBES	1-4-4	MAXIMUM		ADMIN		LEAD TIME		TOTAL	
							PRIOR 1 OCT	AFTER 1 OCT	MANU- FACTURING TIME	AFTER 1 OCT		
	1	BAO ORD (ORC) GARLAND, TX	135	300	500							
							INITIAL		7	5	12	17
							REORDER		1	5	11	16

UNCLASSIFIED

1

DATE: February 1995

UNCLASSIFIED	PRODUCTION SCHEDULE (EXHIBIT P-21)	P-1 ITEM NOMENCLATURE	NIGHT VISION AN/PAS-13 TWS
	EQUIPMENT		

(1K2800)

APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT. ARMY 2. COMMUNICATIONS AND ELECTRONICS EQUIPMENT.

P-1 ITEM NOMENCLATURE

(1K2800)

[illegible]

P-1 SHOPPING LIST
ITEM NO. 71

UNCLASSIFIED

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EXHIBIT P-2

UNCLASSIFIED

REPORTS CONTROL SYMBOL	"CODE B" ITEM DESCRIPTION	DATE:	February 1995
DD-COMP (AR) 1092			
APPROPRIATION/BUDGET ACTIVITY:			
P-1 ITEM NOMENCLATURE:			
AN/PAS-13 THERMAL WEAPON SIGHT			
(K22900)			
OTHER PROCUREMENT, ARMY 2			
COMMUNICATIONS AND ELECTRONICS EQUIPMENT			
CURRENT DEVELOPMENT AND TEST STATUS:			
CURRENT START DATE		SCHEDULE DATE	
LAST REPORTED		REASON FOR DELAY	
DEV TEST & EVAL (DT&E)	PLAN/ACTUAL	2Q FY94	
LIMITED USER TEST (LUT)	PLAN/ACTUAL	3Q FY94	
INITIAL OPER TEST & EVAL (IOT&E)	PLAN/ACTUAL	2Q FY96	
AVAIL DATE OF TECH DATA PKG (TDP)		4Q FY94	
OR PERFORMANCE SPECIFICATIONS			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: MAR 95			
EQUIPMENT ITEM(S) TO BE REPLACED: ANTVS-5 CREW SERVED WEAPON SIGHT AND AN/PVS-4 INDIVIDUAL WEAPON SIGHT			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:			
GEN II THERMAL DEVICE SIGNIFICANTLY IMPROVES DISMOUNTED INFANTRY OPERATIONAL CAPABILITY BY INCREASING RANGE AND ENABLING BOTH DAY AND NIGHT VISION THROUGH OBSCURANTS, WEATHER AND EXTREMELY LOW LIGHT LEVELS.			
DEVELOPMENT CONTRACT INFORMATION:			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY94
HUGHES AIRCRAFT CORP (HAC)	EL SEGUNDO, CA	EOS	43.0M
REMARKS:			

P-1 SHOPPING LIST

EXHIBIT P-19

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UNCLASSIFIED

ITEM No. 71

UNCLASSIFIED

REPORTS CONTROL SYMBOL		"CODE B" ITEM DESCRIPTION		DATE: February 1985	
DD-COMP (AR) 1092		P-1 ITEM NOMENCLATURE:		(K38400)	
APPROPRIATION/BUDGET ACTIVITY:		AN/PLQ-5 LASER COUNTER MEASURE SYSTEM			
OTHER PROCUREMENT, ARMY 2					
COMMUNICATIONS AND ELECTRONICS EQUIPMENT					
CURRENT DEVELOPMENT AND TEST STATUS:		REASON FOR DELAY			
		CURRENT START DATE	SCHEDULE DATE LAST REPORTED		
DEV TEST & EVAL (DT&E)		4Q FY93	4Q FY83		
INITIAL OPER TEST & EVAL (IOT&E)		4Q FY94	2Q FY94		
OPER TEST & EVAL (OT&E)		4Q FY94	4Q FY94		
AVAIL DATE OF TECH DATA PKG (TDP)					
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:		JUN 95			
EQUIPMENT ITEM(S) TO BE REPLACED:		NONE			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:		A LASER COUNTER MEASURE SYSTEM DESIGNED TO DETECT AND COUNTER THREAT OPTICAL AND ELECTRO-OPTICAL SYSTEMS. IT WILL ENABLE AN INDIVIDUAL SOLDIER TO NEUTRALIZE ENGAGEMENTS BY ENEMY ARMOR AND HELICOPTERS AT STAND OFF DISTANCES.			
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY94	CYR 95	BYR 96
LOCKHEED-SANDERS	NASHUA, NH		14.4M	0	0
REMARKS:					

P-1 SHOPPING LIST

EXHIBIT P-19

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UNCLASSIFIED

ITEM No. 71

UNCLASSIFIED

REPORTS CONTROL SYMBOL		"CODE B" ITEM DESCRIPTION		DATE:	February 1995
DD-COMP (AR) 1092		APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:	
OTHER PROCUREMENT, ARMY 2		COMMUNICATIONS AND ELECTRONICS EQUIPMENT		LIGHTWEIGHT VIDEO RECONNAISSANCE SYSTEM (LVRS)	
CURRENT DEVELOPMENT AND TEST STATUS:		CURRENT START DATE	SCHEDULE DATE LAST REPORTED	REASON FOR DELAY	
DEV TEST & EVAL (DT&E)		4Q FY94	4Q FY94	Restructure of testing to meet available test window.	
INITIAL OPER TEST & EVAL (IOT&E)		1Q FY95	4Q FY94		
OPER TEST & EVAL (OT&E)					
AVAIL DATE OF TECH DATA PKG (TDP)		1Q FY95	4Q FY94		
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:		JUN 95			
EQUIPMENT ITEM(S) TO BE REPLACED:		NONE			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:					
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FY94	CYR 95	BYR 96
EOIR	Spotsylvania, VA		1.3M	0	0
REMARKS:					
Funded RDTE effort PE 644713, Project D668					

UNCLASSIFIED										DATE February 1995			
REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET											
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE											
Other Procurement, Army 2 - Other Support Equipment		PHYSICAL SECURITY SYSTEMS								(B27800)			
		* FY 94	* FY 95	FY	FY	FY	FY	FY	FY	FY	FY		
QUANTITY													
COST (IN MILLIONS)		11.1	10.1										
<p>DESCRIPTION: (* TRANSFERRED FROM OPA-2 TO OPA-3 STARTING IN FY96)</p> <p>Physical Security Systems includes the Integrated Commercial Intrusion Detection System (ICIDS) and the Joint-Services Interior Intrusion Detection System (J-SIIDS)/Commercial Intrusion Detection Systems (CIDS). The ICIDS program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional arms, ammunition and explosives areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. These components are assembled as 'systems' to meet the site specific security requirements of installations on a DA Distribution Plan. Air Force developed components, which provide security for exterior perimeters of sensitive facilities, will be procured and integrated into the ICIDS program. The Alarm Monitor Group (AMG), a Personnel Computer based upgrade to the J-SIIDS, provides a cost effective system meeting the basic security communications, control and display capabilities for small site applications where an ICIDS would be inappropriate. These components are assembled as 'systems' to meet the site specific requirements of installations on the DA Distribution Plan.</p> <p>Physical Security Systems protects high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these assets prior to armed conflict or to politically embarrass the United States during peacetime.</p> <p>JUSTIFICATION: (* TRANSFERRED FROM OPA-2 (B27800) TO OPA-3 (MA0780) STARTING IN FY96)</p>													
DD Form 2454, JUL 88				P-1 SHOPPING LIST				UNCLASSIFIED				Page 1 of 5 Pages EXHIBIT P-40	
ITEM NO 72				PAGE NO				OF					

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-3)		A. AFFILIATION NO. OPA 2 - Communication and Electronics Equipment		B. WEAPON MU PHOTONIC SECURITY SYSTEMS		C. MANUF. D. DATE Numerous See 5a. February 1995	
Weapon System Cost Element	IDENT CODE	FY94		FY95		Total Cost	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
ICIDS							
ICIDS Hardware Engineering Support	A	*	3	4857	*	4863	3
				933		866	
AMG Hardware Engineering Support	A	21	30	630	21	630	30
				248		350	
SUBTOTAL				6668		6709	
J-SHDS/CIDS							
J-SHDS Hardware Engineering Support	A	1		504	1	504	
				270		270	
CIDS Anti-terrorism (Force Protection) Physical security Equipment		*		2484	*	584	
		*		1200	*	2082	
SUBTOTAL				4458		3440	
PROGRAM TOTAL				11126		10149	

* "Unit Cost" is site dependent; components are assembled according to individual site security requirements.

** (TRANSFERRED FROM OPA-2 TO OPA-3 IN FY96)

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BUDGET PROCUREMENT HISTORY AND PLANNING (P-5A)

B. APPROPRIATION / BUDGET / ACTIVITY						C. P-1 ITEM NOMENCLATURE				(BZ7800)
Other Procurement, Army 2 - Communications and Electronics Equipment						Physical Security Systems				
Cost Element/ FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	IF YES, WHEN AVAILABLE	
ICIDS										
FY94	Paramax	C/FP	ATCOM	Jan 94	Jun 94	3	*	Yes		
FY95	Paramax	Option	ATCOM	Jan 95	Mar 95	3	*	Yes		
AMG										
FY94	FPI	FP	ATCOM	Aug 94	Jan 95	30	21,000	Yes		
FY95	FPI	Option	ATCOM	Feb 95	Jul 95	30	21,000	Yes		
J-SHDS										
FY94	CKC Industries	C/FP	ATCOM	Jan 94	Mar 94	504	1,000	Yes		
FY95	Unknown	C/FP	ATCOM	Jan 95	Mar 95	504	1,000	Yes		
CIDS	**									

D. REMARKS

Paramax - Paramax Systems Corporation, Alexandria, VA
 FPI - Federal Prison Industries, Big Springs, TX

CKC Industries, Inc., Tampa, FL

* "Unit Cost" is site dependent; components are assembled according to individual installation security requirements.

**CIDS funds locally purchased, nonstandard, IDS hardware. Funds are MIPR d to installations for competitive contracts, Project Orders or Work Requests.

PRODUCTION SCHEDULE

DATE February 1985

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2
Other Support Equipment

P-1 ITEM NOMENCLATURE
PHYSICAL SECURITY SYSTEMS
INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)

(EC7800)

FACILITY NO	U / M	S E R V	PROGRAM QUANTITY						ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94						FISCAL YEAR 95						FISCAL YEAR 96						FISCAL YEAR 97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			FY 94	FY 95	FY 96	FY 97	FY 98	CALENDAR YEAR 94						CALENDAR YEAR 95						CALENDAR YEAR 96						CALENDAR YEAR 97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
								OCT			NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY			ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT			REMARKS		
		MINIMUM	1-8-5	MAXIMUM	MINIMUM	1-8-5	MAXIMUM	PRIOR 1 OCT	AFTER 1 OCT	TOTAL	PRIOR 1 OCT	AFTER 1 OCT	TOTAL	PRIOR 1 OCT	AFTER 1 OCT	TOTAL			
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
1	Paramax Systems Corporation																* Unit of Measure is a 'system': a configuration of components (a command/control console and associated equipment). Delivery Orders are placed for each system with 'manufacturing' being a continuous process of site validation, site design and component assembly and installation. ** Contract is for one year, for an indefinite quantity, with four (one year) options, providing a 'Best Estimated' quantity of 21 installed systems. A minimum and maximum quantity of 10 and 40 systems respectively have been negotiated.		

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		P-1 ITEM NOMENCLATURE			
APPROPRIATION / BUDGET ACTIVITY		PHYSICAL SECURITY SYSTEMS		(BZ7800)	
Other Procurement, Army 2 - Other Support Equipment		* FY 94	* FY 95	FY	FY
QUANTITY					
COST (IN MILLIONS)		11.1	10.1		
<p>DESCRIPTION: (* TRANSFERRED FROM OPA-2 TO OPA-3 STARTING IN FY96)</p> <p>Physical Security Systems includes the Integrated Commercial Intrusion Detection System (ICIDS) and the Joint-Services Interior Intrusion Detection System (J-SIIDS)/Commercial Intrusion Detection Systems (CIDS). The ICIDS program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional Arms, Ammunition and Explosives Areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. These components are assembled as systems to meet the site specific security requirements of installations on a DA Distribution Plan. Air Force developed components, which provide security for exterior perimeters of sensitive facilities, will be procured and integrated into the ICIDS program. The Alarm Monitor Group (AMG), a Personnel Computer based upgrade to the J-SIIDS, provides a cost effective system meeting the basic security communications, control and display capabilities for small site applications where an ICIDS would be inappropriate. These components are assembled as systems to meet the site specific requirements of installations on the DA Distribution Plan.</p> <p>Physical Security Systems protects high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these assets prior to armed conflict or to politically embarrass the United States during peacetime.</p> <p>JUSTIFICATION: (* TRANSFERRED FROM OPA-2 (BZ7800) TO OPA-3 (MA0780) STARTING IN FY96)</p>					
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 72 PAGE NO OF		UNCLASSIFIED Page 1 of 5 Pages EXHIBIT P-40	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION NO. OPA 2 - Communication and Electronics Equipment				B. REPORT MO PHYSICAL SECURITY SYSTEMS (BZ7800)				C. MANUF. Numerous See 5a.		D. DATE February 1995		
	IDENT CODE	FY94 Unit Cost	FY94 Qty	FY94 Total Cost	FY95 Unit Cost	FY95 Qty	FY95 Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Weapon System Cost Element													
ICIDS													
ICIDS	A	*	3	4857	*	3	4863						
Hardware				933			866						
Engineering Support													
AMG													
Hardware	A	21	30	630	21	30	630						
Engineering Support				248			350						
SUBTOTAL				6668			6709						
J-SIIDS/CIDS													
J-SIIDS	A												
Hardware		1		504	1		504						
Engineering Support				270			270						
CIDS													
Anti-terrorism (Force Protection)		*		2484	*		584						
Physical security Equipment		*		1200	*		2082						
SUBTOTAL				4458			3440						
PROGRAM TOTAL				11126			10149						

* "Unit Cost" is site dependent; components are assembled according to individual site security requirements.
 ** (TRANSFERRED FROM OPA-2 TO OPA-3 IN FY96)

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February 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION / BUDGET / ACTIVITY						C. P-1 ITEM NOMENCLATURE				IF YES, WHEN AVAILABLE
Other Procurement, Army 2 - Communications and Electronics Equipment						Physical Security Systems				
Cost Element/ FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW		
ICIDS										
FY94	Paramax	C/FP	ATCOM	Jan 94	Jun 94	3	*	Yes		
FY95	Paramax	Option	ATCOM	Jan 95	Mar 95	3	*	Yes		
AMG										
FY94	FPI	FP	ATCOM	Aug 94	Jan 95	30	21,000	Yes		
FY95	FPI	Option	ATCOM	Feb 95	Jul 95	30	21,000	Yes		
J-SIIDS										
FY94	CKC Industries	C/FP	ATCOM	Jan 94	Mar 94	504	1,000	Yes		
FY95	Unknown	C/FP	ATCOM	Jan 95	Mar 95	504	1,000	Yes		
CIDS	**									

D. REMARKS

Paramax - Paramax Systems Corporation, Alexandria, VA

FPI - Federal Prison Industries, Big Springs, TX

CKC Industries, Inc., Tampa, FL

* "Unit Cost" is site dependent; components are assembled according to individual installation security requirements.

**CIDS funds locally purchased, nonstandard, IDS hardware. Funds are MIPR'd to installations for competitive contracts, Project Orders or Work Requests.

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army 2
Other Support Equipment

P-1 ITEM NOMENCLATURE
PHYSICAL SECURITY SYSTEMS
INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)

(827800)

FACILITY NO	S E R I E S	PROGRAM QUANTITY								ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94												FISCAL YEAR 95												FISCAL YEAR 96														
		FY										CALENDAR YEAR 94												CALENDAR YEAR 95												CALENDAR YEAR 96														
		94	95	96	97	98	99	00	01			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	A	3									3																																							
1	A	3									3																																							
TOTAL MONTHLY PRODUCTION												0																																						

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME				TOTAL	
		MINIMUM	MAXIMUM		ADMIN LEAD TIME		MANUFACTURING TIME		AFTER 1 OCT	TOTAL
		1-8-5	1-8-5		PRIOR 1 OCT	AFTER 1 OCT	PRIOR 1 OCT	AFTER 1 OCT		
1	Paramax Systems Corporation				INITIAL	14	3	0	0	0
					REORDER	0	3	3	0	0

REMARKS

* Unit of Measure is a 'system': a configuration of components (a command/control console and associated equipment). Delivery Orders are placed for each system with manufacturing being a continuous process of site validation, site design and component assembly and installation.

** Contract is for one year, for an indefinite quantity, with four (one year) options, providing a 'Best Estimated' quantity of 21 installed systems. A minimum and maximum quantity of 10 and 46 systems respectively have been negotiated.

BUDGET ITEM JUSTIFICATION SHEET										DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment					P-1 ITEM NOMENCLATURE: ARTILLERY ACCURACY EQUIPMENT (AD3200)						
			FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY											
COST (IN MILLIONS)	12.7	9.4	12.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
DESCRIPTION: Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment includes procurement of the Meteorological Measuring System (K27800); Position Azimuth Determining System (North Seeking Gyro) (AD3300); and Artillery Muzzle Velocity System (AD3250).											
JUSTIFICATION: FY96 funds provide for the final buyout of the Meteorological Hydrogen Generator (MHG) and will field Meteorological Measuring Systems procured during FY93-94. The FY96 funds will also support fielded units and readiness requirements of the Muzzle Velocity System to enhance accuracy and probability of first/early round target hits. The FY97 procurement will continue to support fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.											

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION Other Procurement, Army 2 - Comm and Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME ARTILLERY ACCURACY EQUIPMENT (AD3200)						D. DATE February 1995	
	Weapon System Cost Elements	Ident	FY94		FY95	FY96		FY97	Total Cost	Total Cost	Total Cost	Total Cost
			Unit Cost	Qty		Unit Cost	Qty					
METEROLOGICAL MEAS SYSTEM NORTHSEEKING GYRO ARTILLERY MUZZLE VEL SYS	A		414	26	10764	566	12	6790	374	20	7470	
			78	38	2975							
			19	104	1941	17	154	2596	16	300	4894	4842
TOTAL FY94 funding reflects a below threshold reprogramming. * P-1 does not reflect actual data.					*15680			9386			12364	4842

EXHIBIT P- 5 Weapon System Cost Analysis

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P-1 SHOPPING LIST
ITEM NO. 73

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BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995		
P-1 ITEM NOMENCLATURE:								
APPROPRIATION/BUDGET ACTIVITY:								
Other Procurement, Army 2 - Comm and Electronics Equipment						METEOROLOGICAL MEASURING SET (MMS) (K27800)		
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	18	12	20					
COST (IN MILLIONS)	7.0	6.8	7.5					
<p>DESCRIPTION:</p> <p>The Meteorological Measuring System (MMS) will provide field artillery weather data to the active army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It will be mobile, provide high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements during assault and provide atmospheric data to 30KM. The Meteorological Hydrogen Generator (MHG) generates hydrogen and diverts gas to a storage tank for later use; provides up to 6 hours of continuous operation. It is environmentally safe and needs only one operator.</p> <p>JUSTIFICATION:</p> <p>The FY 96 funds are required to procure the MHG final buyout and to field MMS systems procured during FY 93-94. The AN/TMQ-41 will dramatically improve the transportability/mobility of the Field Artillery Met Section. The fielding of the AN/TMQ-41 will allow the 1947 vintage (unsupportable) AN/GMD-1 to be replaced. The FY 96 funds are required to fill the critical need to provide a State-of-the-Art Meteorological Hydrogen Generator (MHG) to the Field Artillery. The MHG is a modern, efficient method of producing hydrogen gas for filling Meteorological balloons used with the AN/TMQ-38 and AN/TMQ-41, and eliminates the hazardous waste associated with the chemical methods currently used to generate lighter than air gas. The MHG is more economical than the chemicals and cylinder methods.</p>								

(IDENTIFICATION CODE A)

EXHIBIT P- 40
PAGE 3 of 13

ITEM NO. 73

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P- 5)	A. APPROPRIATION				B. WEAPON MODEL/SERIES/POPULAR NAME						D. DATE	
	Other Procurement, Army 2 - Comm and Electronics Equipment				Meteorological Measuring Set (MMS) (K27800) Meteorological Hydrogen Generator (MHG)						February 1995	
	FY94		FY95		FY96		FY97					
Weapon System Cost Elements	Ident Cod	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Total Cost
<u>HARDWARE</u>	A											
MMS		276	18	4968								
MHG		205	8	1640	193	12	2316	181	20	3620		
NON-RECURRING ENG				1495								
DATA				567								
FIRST ARTICLE TEST				214								
ECO'S				185			400			115		
GOVERNMENT TESTING				538			440					
ENGINEERING SUPPORT				185			218			328		
CONTRACTS ENGINEERING				684			773			1160		
GOVERNMENT IN-HOUSE												
FIELDING				65			916			1922		
DEPOT MAINTENANCE SETUP-TOAD							1462					
PROGRAM MANAGEMENT ADMIN				223			265			325		
TOTAL				10764			6790			7470		
FY94 funding reflects a below threshold reprogramming.												

EXHIBIT P- 5 Weapon System Cost Analysis
Page No. 4 of 13

P-1 SHOPPING LIST
ITEM NO. 73

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						DATE: February 1995				
APPROPRIATION/BUDGET ACTIVITY:						P-1 ITEM NOMENCLATURE:				
Other Procurement, Army 2 - Comm and Electronics Equipment						METEOROLOGICAL MEASURING SET (MMS) (K27800)				
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY 94 MMS	ETG BALTIMORE, MD	C/OPTION	CECOM	DEC 93	FEB 95	18	276,032	YES	NO	
FY 94 MHG	ETG BALTIMORE, MD	C/FP	CECOM	APR 94	APR 95	8	204,512	YES	NO	
FY 95 MHG	ETG BALTIMORE, MD	C/OPTION	CECOM	FEB95	AUG 95	12	193,045	YES	NO	
FY 96 MHG	ETG BALTIMORE, MD	C/OPTION	CECOM	OCT 95	AUG 96	20	180,640	YES	NO	
REMARKS:										

**P-1 SHOPPING LIST
ITEM NO. 73**

**EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING
PAGE 5 of 13**

UNCLASSIFIED

DATE: February 1995

PRODUCTION SCHEDULE (EXHIBIT P-21)

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement, Army 2 - Comm and Electronic Equipment

METEOROLOGICAL MEASURING SET (MMS)

(K27800)

[illegible]

FACIL ID	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES				PROCUREMENT LEAD TIME					REMARKS			
		MINIMUM START-UP	1-4-6	SALUBRUM	MONTHS TO RECEIVE MAX AFTER 6-WAY	ADDITION LEAD TIME			MANU- FACTURING TIME	TOTAL AFTER 1 OCT				
						PRIOR 1 OCT	AFTER 1 OCT							
1	ENVIRONMENTAL TECHNOLOGIES BALTIMORE,MD	2	3	12	18								PRODUCTION RATES REFLECT INITIAL PRODUCTION BY SMALL BUSINESS, LOW DENSITY PROCUREMENT, AND INTENT TO KEEP LINE OPEN FOR POSSIBLE FUTURE PROCUREMENT.	
2	ENVIRONMENTAL TECHNOLOGIES BALTIMORE,MD	1	2	4	16					2	7	12	19	
						INITIAL								
						REORDER				0	1	6	7	PROCUREMENT LEAD TIME REFLECTS MHG PROCUREMENTS

P-1 SHOPPING LIST
ITEM NO. 73

BUDGET ITEM JUSTIFICATION SHEET							DATE: February 1995		
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment				P-1 ITEM NOMENCLATURE: NORTH SEEKING GYRO (AD3300)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY									
COST (IN MILLIONS)	3.0								
DESCRIPTION: The NORTH SEEKING GYRO is a tripod mounted device consisting of a gyroscope, an electronic control unit with a display panel and a theodolite. The NORTH SEEKING GYRO will be used by survey parties to provide a precise Azimuth in three minutes after initialization.									
JUSTIFICATION: The rapid emplacement of field artillery weapons, coupled with quick and accurate locational data significantly enhances the effectiveness of those weapons. Increasing the accuracy and probability of first/early round target hits decreases projectile and propellant usage and artillery tube wear by eliminating the requirement to adjust fire on a target. The FY94 funds procured 38 devices for the Active Army and Training base.									

BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 - Comm and Electronics Equipment			P-1 ITEM NOMENCLATURE: ARTILLERY MUZZLE VELOCITY SYSTEM (AD3250)				
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							
COST (IN MILLIONS)	2.7	2.6	4.9	4.8	4.8	4.8	4.8
DESCRIPTION: <p>The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of the MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of a technical data package, provisioning data, manuals and training together with the production hardware for fielding. As part of the MVS procurement, a Level III Technical Data Package (TDP) will be obtained fifteen months after First Article Test Acceptance scheduled for Jul 95. In order to utilize the TDP for acquisition of spares and develop organic depot support, the acquisition of unlimited data rights is essential. The funds identified as Technical Data Package Data Rights on the Exhibit P-5 will allow the acquisition of those data rights.</p>							
JUSTIFICATION: <p>The FY96/97 procurement will continue to support fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.</p>							

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION Other Procurement, Army 2 - Comm and Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME Artillery Muzzle Velocity System (AD3250)						D. DATE February 1995	
Weapon System Cost Elements		FY94			FY95			FY96			FY97		
	Ident	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
HARDWARE	A	12	104	1220	12	154	2036	12	300	3460	11	295	3330
ENGINEERING CHANGE PROPOSAL							8			9			4
TECH DATA PACKAGE RIGHTS										1200			1330
ENGINEERING SUPPORT				351			216			169			134
GOVERNMENT IN-HOUSE				340			295						
RAM TEST													
QA SUPPORT				30			20			31			29
TOTAL PACKAGE FIELDING							21			25			15
TOTAL PROGRAM COST				1941			2596			4894			4842
FY94 funding reflects a below threshold reprogramming.													
PROGRAM UNIT COST				19			15			16			17

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P- 5A)

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY:

Other Procurement, Army 2 - Comm and Electronics Equipment

P-1 ITEM NOMENCLATURE:

Artillery Muzzle Velocity System (AD3250)

LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	ONTRACTED B	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
Hardware - 1994	RSL Electronics Poughkeepsie, NY	C/FFM-5(1)	ACALA	JUL94	AUG95	26	14,554	YES	NO	
Conventional Paladin						78	10,608	YES	NO	
Hardware - 1995	RSL Electronics Poughkeepsie, NY	C/FFM-5(2)	ACALA	MAY95	AUG96	25	14,554	YES	NO	
Conventional Paladin						78	10,608	YES	NO	
Conventional Paladin		OPTION	ACALA	MAY95	AUG96	28	10,697	YES	NO	
						39	8,440	YES	NO	
Hardware - 1996	RSL Electronics Poughkeepsie, NY	C/FFM-5(3)	ACALA	MAY96	AUG97	50	14,554	YES	NO	
Conventional Paladin						150	10,608	YES	NO	
Conventional Paladin		OPTION	ACALA	MAY96	AUG97	25	10,697	YES	NO	
						75	8,440	YES	NO	
Hardware - 1997	RSL Electronics Poughkeepsie, NY	C/FFM-5(4)	ACALA	MAY97	AUG98	49	14,554	YES	NO	
Conventional Paladin						148	10,608	YES	NO	
Conventional Paladin		OPTION	ACALA	MAY97	AUG98	24	10,697	YES	NO	
						74	8,440	YES	NO	

REMARKS

P-1 SHOPPING LIST
ITEM NO. 73EXHIBIT P- 5A
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UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET									
BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION/BUDGET ACTIVITY:									
OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS & ELECTRONICS EQUIPMENT									
COMMUNICATIONS & ELECTRONICS EQUIPMENT									
P-1 ITEM NOMENCLATURE:									
MOD OF IN-SVC EQUIP (TAC SURV)									
(BZ7325)									
DATE: FEBRUARY 1995									
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
COST (IN MILLIONS)	\$35.7	\$4.6	\$26.9	\$15.7	\$1.9	\$6.2	\$3.5	\$0.0	
DESCRIPTION: The AN/TPQ-36/37 FIREFINDER Counterbattery radars are mobile, phased-array radars which automatically locate mortar, artillery, and short and long range rocket weapons with accuracy to permit rapid engagement with counterfire. There are two significant materiel change programs to the AN/TPQ-36. The AN/TPQ-36(V)7 HMMWV MC reconfigures AN/TPQ-36(V)5s from 2-1/2 ton vehicles and 1-1/2 ton trailers to HMMWVs with compatible trailers to improve transportability and mobility, and incorporates the Modular Azimuth Positioning System for automatic self-survey. The AN/TPQ-36(V)8 Electronics Upgrade MC modifies the AN/TPQ-36(V)7 radars by exchanging the nearly obsolete Operations Control Group (OCG) equipment with state of the art electronics including Common Hardware/Software (CHS) in a Lightweight Multipurpose Shelter. There are two significant materiel change programs to the AN/TPQ-37. The Enhanced FIREFINDER Block I increases transportability, has greater mobility and detection range, and provides a self-survey capability. It includes ECCM, target classification, reduces the false alarms in an active aircraft environment, and increases survivability. The Antenna Transceiver Group (ATG) Mobility Improvement MC will modify the M-1048 trailer with a tracked suspension system to enhance roadability and mobility.									
MATERIEL CHANGE NO. / TITLE	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
1-86-07-0011 AN/TPQ-37 MECH RETROFIT	0.121								
1-89-07-0007 AN/TPQ-36/37 TACFIRE UPGR	0.023								
1-92-07-0027 AN/TPQ-37 ATG MOBILITY	1.927	0.340	0.307						
1-88-07-0004 AN/TPQ-36(V)7 HMMWV	1.229								
1-90-07-0016 AN/TPQ-36(V)8 ELECT UPGRADE	17.241	3.382	25.777	15.720					
1-93-07-0001 AN/TPQ-37 ENHANCED FF, BLK I	15.197	0.848	0.776						
FIRE SUPPORT DIGITIZATION					1.899	6.233	3.483		
TOTAL	35.738	4.570	26.860	15.720	1.899	6.233	3.483		

EXHIBIT P-40

P-1 SHOPPING LIST

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ITEM NO. 74

(FFP40C)

UNCLASSIFIED

UNCLASSIFIED

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)										Date
										FEBRUARY 1995
Appropriation/P-1 Line Item		Weapon System (If applicable)			Equipment Nomenclature			PE		
OPA 2, COMM & ELEC EQUIP		FIREFINDER			AN/TPQ-36(V)8					
MOD OF IN SVC EQUIP (TAC SURV)		FY95			FY96			FY97		
Fin Plan		FY94/Prior			FY95			FY96		
Quantity								Total		
PROC	70	5883	142						6095	
RDT&E									0	
O&S									0	

TRAINING SYSTEM DESCRIPTION:

The existing FIREFINDER Trainers support training for the AN/TPQ-36(V)5 and (V)7. They consist of an Operator Trainer (A17E11), a Unit Maintenance Trainer (A17E12) and an Intermediate Maintenance Trainer. The FIREFINDER Intermediate Maintenance Trainer (FIMT) (06-84) has been developed and was delivered in 2Q94. The training devices are utilized at the US Field Artillery School, Ft Sill, OK.

Funds will be utilized in FY96 to modify the existing trainers and procure new trainers to align with the AN/TPQ-36(V)8, Electronics Upgrade, Materiel Change Number 1-90-07-0016. The IOC for the AN/TPQ-36(V)8 is 1Q98.

A new Operator Trainer will be developed to support the AN/TPQ-36(V)8. The trainer will provide two instructor stations and twelve student stations. The FY97 average seat requirement for active army is estimated at 199 (based on 85% field strength (306)).

The unit maintenance trainer A17E12 consists of six student stations and the course supported is 221-ASIX5(13R), FA FIREFINDER Unit Maintenance. An Interactive Multimedia learning system consisting of one instructor station and eight student stations will be procured to support AN/TPQ-36(V)8 unique maintenance learning skills. The FY97 average active army seat requirement is estimated at 88.

P-1 SHOPP LIST ITEM NO.	Page No. 2 of 16	EXHIBIT-43 P-43 Simulator & Training Device Justification
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UNCLASSIFIED

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2)(\$0000)

Date **FEBRUARY 1995**[illegible]

(BX43-2A)

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EXHIBIT P-43(2)

UNCLASSIFIED

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3)(\$000)										Date FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)	
OPERATOR TRAINER A17E11										FIREFINDER	
Description/Justification											
This training device trains FIREFINDER RADAR Operators (13R10). The FY97 requirement to train active army is 199 students. A new Operator Trainer will be developed to support the AN/TPQ-36(V)8. The trainer will provide two instructor stations and twelve student stations.											
Financial Plan	FY 94/Prior	FY 95	FY 96	FY 97	Cost Complete	Total Cost					
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
Hardware Costs											
Device (Hardware)			2	1403					2	1403	
ECDs									0	0	
Nonrecurring				404					0	404	
GFE									0	0	
Other (Specify)									0	0	
Total Hardware Costs	0	0	0	1807	0			0	2	1807	
Support Costs											
Special SE										0	
Integrated Logistics Support										0	
Other (Specify)		54		109				109		272	
Total Support Costs	0	54		109				109	0	272	
Software/Courseware				2614						2614	
Total Costs	0	54		4530				109	0	4693	
P-1 SHOPP List										Exhibit P-43(3)	
ITEM NO. 74										Page No. 4 of 16	

(EX43-3A)

UNCLASSIFIED

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SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3)(\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (If applicable)			
UNIT MAINTENANCE TRAINER A17E12										FIREFINDER			
Description/Justification This training device supports training for FIREFINDER RADAR Unit Maintenance. The FY97 requirement to train active army is 88 students. An Interactive Multimedia learning system consisting of one instructor station and eight student stations will be procured to support AN/TPQ-36(V)8 unique maintenance learning skills.													
Financial Plan	FY 94/Prior		FY 95		FY 96		FY 97		Cost Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
Hardware Costs													
Device (Hardware)					1	466					1	466	
ECDs											0	0	
Nonrecurring						74					0	74	
GFE											0	0	
Other (Specify)											0	0	
Total Hardware Costs		0		0		540		0		0	1	540	
Support Costs													
Special SE											0	0	
Integrated Logistics Support											0	0	
Other (Specify)				16		33		33			0	82	
Total Support Costs		0		16		33		33		0	0	82	
Software/Courseware						780					0	780	
Total Costs		0		16		1353		33		0	1	1402	
P-1 SHOPP List										Exhibit P-43(3)			
ITEM NO. 74										Page No. 5 of 16			

(EX43-3B)

UNCLASSIFIED

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FEBRUARY 1985

MODIFICATION INSTALLATION SUMMARY
(Dollars In Millions)

SYSTEM/MODIFICATION	EY94/Prior	EY95	EY96	EY97	EY98	EY99	EY00	EY01	TOTAL
AN/TPQ-36									
AN/TPQ-36(V)7	0.954								0.954
AN/TPQ-36(V)8				0.814					0.814
TOTAL AN/TPQ-36	0.954	0	0	0.814		0	0	0	1.768
AN/TPQ-37									
ENHANCED FF BLOCK I			0.776						0.776
ATG MOBILITY IMPROVEMENT			0.307						0.307
TOTAL AN/TPQ-37		0	1.083						1.083

P-1 SHOPPING LIST
ITEM NO. 74

EXHIBIT P3N

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UNCLASSIFIED

(FFP3N)

UNCLASSIFIED

MODIFICATION OF WEAPON SYSTEMS

FEBRUARY 1995

MODIFICATION TITLE:

AN/TPQ-36(V)8 Electronics Upgrade (MC #1-90-07-0016)

MODELS OF SYSTEMS AFFECTED:

AN/TPQ-36(V)7 HMMWV Radar

1. DESCRIPTION: The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, Separate Brigades, and rapid deployment task forces and is NOT projected for replacement. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. This Materiel Change was approved for the electronics upgrade of 59 AN/TPQ-36(V)7 HMMWV Radars. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-the-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&S) savings over twenty years.

2. JUSTIFICATION: FY96 funds are required to award a Full Rate Production (FRP) contract for a quantity of 12 ea. modification kits and associated training equipment. The contract will include an option to procure 13 ea. for the FY97 requirement.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Eight (8) LRIP units are currently under contract. The Milestone III IPR for Full Rate Production (FRP) and Standard Type Classification is scheduled for 2QFY98. IOC will take place 1QFY98.

P-1 SHOPPING LIST
ITEM NO. 74

EXHIBIT P-3A

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(U)P3A)

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AN/TPQ-36(V)8 ELECTRONICS UPGRADE
(MC #1-90-07-0016)

DATE: FEBRUARY 1995

FINANCIAL PLAN: (\$ in Millions)											
FDT&E	FY94/Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL	
	City \$	Qty	City \$	Qty	City \$	Qty	City \$	Qty	City \$	Qty	City \$
PROCUREMENT KIT QUANTITY	8	0	12	13							33
Installation Kits											0.0
Installation Kit Nonrecurring											0.0
Installed Equipment	9.5	1.9	12.9	12.3							36.6
Installed Equipment Nonrecurring	21.0	0.1	3.3	0.1							24.5
Engineering Change Orders		0.1	0.2	0.4							0.7
Data	1.2	0.2	2.2	0.6							4.2
Training Equipment		0.1	5.9	0.1							6.1
Support Equipment											0.0
Other											0.0
PM Admin	1.7	1.0	1.1	1.1							4.9
Fielding			0.2	0.3							0.5
Interim Contractor Support											0.0
Installation of Hardware											0.0
FY93 Eqpt (1 kits)		1	0.0								1
FY94 Eqpt (7 kits)		7	0.0								7
FY95 Eqpt (12 kits)											0
FY96 Eqpt (13 kits)				12	0.4						12
FY97 Eqpt (13 kits)				13	0.4						13
FY98 Eqpt (13 kits)											0
FY99 Eqpt (13 kits)											0
FY00 Eqpt (13 kits)											0
FY(TC) Eqpt (13 kits)											0
Total Installation Cost (Subtotal)	0	8	0	25	0.8	0	0.0	0	0.0	0	33
	33.4	3.4	25.8	15.7	0.0	0.0	0.0	0.0	0.0		78.3
TOTAL PROCUREMENT COST											
METHOD OF IMPLEMENTATION:											
ADMINISTRATIVE LEADTIME:											
Eight (8) LRP units installed at Grumman Aerospace Corp. prior to delivery. FFP installed at depot.											
3 MONTHS PRODUCTION LEADTIME: 15 MONTHS											
CONTRACT DATE:	FY 94 Dec 93 (Option)	FY 95:NA	FY 96:Mar 96	FY 97	FY 98	FY 99	FY 00	FY 01	TC		OCT 96
DELIVERY DATE:	FY 94:Sep 95	FY 95:NA	FY 96:Jun 97	FY 97	FY 98	FY 99	FY 00	FY 01			JAN 98
INSTALLATION SCHEDULE:											
	FY94/Prior	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL		
	1	2	3	4	1	2	3	4	1	2	3
INPUTS											
OUTPUTS											

P-1 SHOPPING LIST
ITEM NO. 74

EXHIBIT P-3A

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UNCLASSIFIED

(VER3A1)

UNCLASSIFIED

PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE: FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT

MOD OF IN-SVC EQUIPMENT (TAC SURV) BZ7325 AN/TPQ-36(M)8

FACIL ITY NO.	U/M	SERV	PROGRAM QUANTITY						ACCRPT PRIOR TO 1 OCT 93	BALANCE DUE AS OF 1 OCT 93	FISCAL YEAR 94				FISCAL YEAR 95				FISCAL YEAR 96				LATER								
			FY								CALENDAR YEAR 94				CALENDAR YEAR 95				CALENDAR YEAR 96												
			93P	94	95	96	97				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	EA	A	1					0	1											1											0
1	EA	A		7				0	7											7											0
1	EA	A			12			0	12																A						12
1	EA	A				13		0	13																						13
TOTAL									0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25

FACIL ITY NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D-DAY		PROCUREMENT LEAD TIME				REMARKS											
		MINIMUM SUSTAIN	1-8-5	MAXIMUM			ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU- FACTURING TIME	TOTAL AFTER 1 OCT												
1	GRUMMAN AEROSPACE, BETHPAGE, NY	1	3	4	N/A		0	3	21	24	All 8 LRIP systems (FY93/FY94) will be accepted upon completion of Live Fire Testing.											
							0	6	15	21												

P-1 SHOPPING LIST
ITEM NO. 74

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EXHIBIT P-21

UNCLASSIFIED

(VR21)

UNCLASSIFIED
MODIFICATION OF WEAPON SYSTEMS

FEBRUARY 1995

MODIFICATION TITLE: AN/TPQ-37 ENHANCED FIREFINDER BLOCK I (MC# 1-93-07-0001)

MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 and (V)6

DESCRIPTION/JUSTIFICATION:

1. DESCRIPTION: This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability Availability Maintainability (RAM), transportability, mobility, and interoperability of the system through FY 05. The effort will design, retrofit, and quality modifications to the system as follows: upgrade the cooling system, provide for transportability by a C-130/C-141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36 (V)7 Operations Control Group (OCG) on the M1097. The MC also includes preproduction efforts required to provide a survivability suite which integrates an active warning and missile defense system.

2. JUSTIFICATION: FY98 funding is for installation and fielding of 24 ea. Block I modification kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone III, Production and Type Classification Decision for the Block I kits was approved in Jun 94 and funding for 24 modification kits was awarded in Jun 94. A contract for the preproduction of the survivability suite was awarded in Aug 94.

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(UNCLASSIFIED)

UNCLASSIFIED

DATE: FEBRUARY 1985

AN/TPQ-37 ENHANCED FIREFINDER BLOCK I
(MC# 1-93-07-0001)

FINANCIAL PLAN: (\$ IN MILLIONS)											
	FY94/Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
PROCUREMENT											
KIT QUANTITY	26										26
Installation Kits											0.0
Installation Kit Nonrecurring											0.0
Installed Equipment	10.5	0.3									10.8
Installed Equipment Nonrecurring	10.7	0.3									11.0
Engineering Change Orders											0.0
Data	1.9	0.1									2.0
Training Equipment											0.0
Support Equipment											0.0
Other											0.0
PM Admin	0.7	0.1									0.8
Fielding											0.0
Interim Contractor Support											0.0
Installation of Hardware											0.0
FY93 Eqpt (2 kits)	2	0.0									2
FY94 Eqpt (24 kits)			24	0.8							24
FY95 Eqpt (kits)											0
FY96 Eqpt (kits)											0
FY97 Eqpt (kits)											0
FY98 Eqpt (kits)											0
FY99 Eqpt (kits)											0
FY00 Eqpt (kits)											0
FY(TC) Eqpt (kits)											0
Total Installation Cost (Subtotal)	2	0.0	24	0.8	0	0.0	0	0.0	0	0.0	26
											0.0
											0.0
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EXHIBIT P-3A

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P-1 SHOPPING LIST

ITEM NO. 74

UNCLASSIFIED

GENPAA1

UNCLASSIFIED

PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE: FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE MOD OF N-SVC EQUIP (TAC SURV) BZ7325

OTHER PROCUREMENT, ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT

AN/TPQ-37 Enhanced FIREFINDER Block 1

FACIL	UM	REV	PROGRAM QUANTITY			ACCEP	BALANCE DUE AS OF 1 OCT 94	FISCAL YEAR 94												FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97												LATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			FY 93	FY 94	FY 95			CALENDAR YEAR 94												CALENDAR YEAR 95												CALENDAR YEAR 96												CALENDAR YEAR 97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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UNCLASSIFIED
MODIFICATION OF WEAPON SYSTEMS

FEBRUARY 1995

MODIFICATION TITLE: AN/TPQ-37 ANTENNA TRANSCEIVER GROUP MOBILITY IMPROVEMENT PROGRAM
(MC# 1-92-07-0027)

MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 and (V)6

DESCRIPTION/JUSTIFICATION:

1. DESCRIPTION: This Materiel Change (MC) was initiated in response to mobility problems encountered during Operation Desert Storm. These problems included excessive wear of the trailer tires, difficulty in moving the trailer through sand, and improper tracking of the trailer behind the assigned prime mover. The Antenna Transceiver Group (ATG) Mobility Improvement Program will apply the Medium Tracked Suspension System (MTSS), produced by Caterpillar, to the M-1048 trailer carrying the AN/TPQ-37 ATG. Testing demonstrated that application of the MTSS provides a wider footprint for the M-1048 trailer which improves trailer mobility in off-road use and does not degrade performance on paved surfaces at highway speeds.

2. JUSTIFICATION: FY96 funding is required for installation and fielding of 24 ea. modification kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone III for the production and application of 24 modification kits was approved in Mar 94. A contract for the modification kits was awarded in Jul 94.

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(ATCP3A)

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ANTPQ-37 ATG MOBILITY IMPROVEMENT
(MC# 1-92-07-0027)

DATE: FEBRUARY 1985

FINANCIAL PLAN: (\$ IN MILLIONS)		FY84/Prior	FY85	FY86	FY87	FY88	FY89	FY90	FY01	TC	TOTAL
RD&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
PROCUREMENT KIT QUANTITY	26										26
Installation Kits											0.0
Installation Kit Nonrecurring											0.0
Installed Equipment		1.4		0.3							0.0
Installed Equipment Nonrecurring		1.2									1.7
Engineering Change Orders		0.1									1.2
Data											0.0
Training Equipment											0.1
Support Equipment											0.0
Other											0.0
PM Admin		0.2									0.2
Fielding											0.0
Interim Contractor Support											0.0
Installation of Hardware											0.0
FY83 Eqpt (2 klts)	2	0.0									0.0
FY94 Eqpt (24 klts)				24	0.3						0.3
FY95 Eqpt (klts)											0
FY96 Eqpt (klts)											0
FY97 Eqpt (klts)											0
FY98 Eqpt (klts)											0
FY99 Eqpt (klts)											0
FY00 Eqpt (klts)											0
FY(TC) Eqpt (klts)											0
Total Installation Cost (Subtotal)	2	0.0	0	0.0	24	0.3	0	0.0	0	0.0	26
		2.9		0.3		0.0		0.0		0.0	3.5
TOTAL PROCUREMENT COST											
METHOD OF IMPLEMENTATION: Two (2)LRIP units installed by contractor prior to delivery. Field installation to be performed by Tobyhanna Army Depot.											
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 11 MONTHS											
CONTRACT DATE:	FY 94:	JUL 94	FY 95:								
DELIVERY DATE:	FY 94:	JUN 95	FY 95:								
INSTALLATION SCHEDULE:											
	FY 83	1	2	3	4	1	2	3	4	1	2
INPUTS	2					6	18				28
OUTPUTS	2							4	6	6	2

P-1 SHOPPING LIST

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EXHIBIT P-3A

(ATCP3A1)

BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 1995

P-1 ITEM NOMENCLATURE:

APPROPRIATION/BUDGET ACTIVITY:

OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS AND ELECTRONICS EQUIPMENT

LIGHTWEIGHT LEADER COMPUTER

(W63800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	\$0.0	\$0.0	\$0.0	\$6.8	\$8.8	\$0.0	\$0.0	\$0.0

DESCRIPTION:

The Lightweight Leader Computer (LLC) is a small, mobile computer that will interface the infantryman with armor and artillery units. LLC will provide computer controls to the dismounted infantry leader to assist him with planning and executing military operations. By using the LLC, planning of the dismounted infantry leader will be enhanced through development and radio communication of preformatted operation-order messages and situation overlays. Also, the LLC will improve the dismounted infantry leaders ability to execute missions by providing the ability to develop and communicate fragmentary orders, spot reports, call-for-fire messages and many other messages (while on-the-move) through a remote input device.

The LLC System consists of an integration of a computer and remote input device with the set of fielded combat net radios and the Precision Location GPS Receiver. The system will provide the dismounted infantry leader the information and processing capability he needs to be digitally integrated into the battlefield.

JUSTIFICATION:

The Army's ability to gain advantage through command and control under the digitized battlefield will be met by procuring the Lightweight Leader Computer (LLC). The FY97 funds will procure 730 of the 3900 LLCs required to field Force Package 1. Small unit leaders need automation assistance to improve their situational awareness and for planning operations. The present manual voice radio approach is too time consuming and causes inaccurate and incomplete situational awareness individual soldier and leaders need in the area of C4I.

NOTE: Current FYDP does not show quantities.

WEAPON SYSTEM COST ANALYSIS

EXHIBIT (P-5)

A. Appropriation/Budget
Activity Title/No.
OTHER PROCUREMENT, ARMY 2 -

COMM & ELEC EQUIPMENT

B. WEAPON
MODEL/SERIES/POPULAR
NAME

LTWT LEADER COMPUTER

C. MANUFACTURER NAME
PLANT CITY/STATE LOCATION

UNKNOWN

D. DATE:

FEB 95

Weapon System
Cost ElementsIdent.
codeFY94
Unit CostQty
Total CostFY95
Unit CostQty
Total CostFY96
Unit CostQty
Total CostFY97
Unit CostQty
Total Cost

LTWT LEADER COMPUTER

HARDWARE

SUPPORT

ECP'S

TOTAL

B

8,000

730/\$5840

1,000

6,840

Exhibit P-5 Weapon System Cost Analysis

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE:
FEBRUARY 1995

C. P-1 ITEM NOMENCLATURE:

LIGHTWEIGHT LEADER COMPUTER

(W63800)

B. APPROPRIATION/BUDGET ACTIVITY:

OTHER PROCUREMENT, ARMY 2 - COMMUNICATIONS AND ELECTRONICS EQUIPMENT

COST ELEMENTS/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Ltwt Ldr Computer	TBS	Option (FFP)	CECOM	OCT 96	FEB 97	730	8,000	NO (SEP 95)		

D. REMARKS:

The Lightweight Leader Computer will be procured as an option under a production contract which is currently being negotiated by the Project Manager Common Hardware/Software.

Form 2446-1, JUL 87

Previous editions are obsolete.

P-1 SHOPPING LIST

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EXHIBIT P-5A Procurement History and Planning

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		"CODE B" ITEM DESCRIPTION		DATE: FEBRUARY 1995	
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, ARMY 2		P-1 ITEM NOMENCLATURE: LIGHTWEIGHT LEADER COMPUTER		(W63800)	
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		CURRENT START DATE		REASON FOR DELAY	
CURRENT DEVELOPMENT AND TEST STATUS:		SCHEDULE DATE LAST REPORTED			
DEV TEST & EVAL (DT&E) PLAN/ACTUAL		3Q FY95			
INITIAL OPER TEST & EVAL (IOT&E) PLAN/ACTUAL		4Q FY95			
OPER TEST & EVAL (OT&E) PLAN/ACTUAL		4Q FY95			
AVAIL DATE OF TECH DATA PKG (TDP)		Jan-96			
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:					
EQUIPMENT ITEM(S) TO BE REPLACED:		NONE			
EXTENT OF IMPROVEMENT OVER ITEM(S) TO BE REPLACED:		N/A			
DEVELOPMENT CONTRACT INFORMATION:					
CONTRACTOR NAME		PLANT LOCATION		THRU FY94	
Technical Evaluation Research Inc.		Little Silver, NJ		1030	
CECOM		Fort Monmouth, NJ		230	
				0	
				235	
				182	
TOTAL R&D FUNDING				1260	
				235	
				182	
REMARKS:					

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EXHIBIT P-19

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REPORTS CONTROL SYMBOL		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995		
DD-COMP(AR)1092											
APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:					(K99200)				
OTHER PROCUREMENT: ARMY2		Computer Ballistics: Mortar XM-23									
COMMUNICATIONS AND ELECTRONICS											
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY											
COST (IN MILLIONS)				5.0	4.1	3.8					
<p>DESCRIPTION:</p> <p>THE MORTAR BALLISTIC COMPUTER (MBC) CALCULATES BALLISTIC TRAJECTORIES AND GIVES THE MORTAR USER DATA TO ELEVATE GUN, SET CHARGE, AND DIRECT FIRE FOR ALL MORTAR ROUNDS. THE IMPROVED MBC USES STATE OF THE ART TECHNOLOGY TO PROVIDE DIGITAL MESSAGE CAPABILITY AND MORTAR FIRING COMPUTATIONS. THE IMPROVED MBC WILL INTERFACE WITH OTHER COMMAND AND CONTROL COMMUNICATION DEVICES TO IMPROVE REQUIRED RESPONSE TIME AND FIRST ROUND ACCURACY FOR MORTAR FIRE. IT INCORPORATES ADA SOFTWARE AND IS OPERATIONALLY COMPATIBLE WITH THE FORWARD ENTRY DEVICE. THE HARDWARE WILL BE A RUGGEDIZED HAND HELD COMPUTER WHICH WEIGHS LESS THAN SIX POUNDS (8.9 LBS WITH CASE, CARRYING STRAPS AND 72-HOUR BATTERIES).</p> <p>JUSTIFICATION:</p> <p>THE CURRENT M23 MBC WILL NOT BE SUPPORTABLE IN THE FIELD AFTER FY96 DUE TO REPAIR PARTS AND COMPONENTS NO LONGER BEING AVAILABLE/PROCURABLE. ALSO, THE MEMORY CAPACITY OF THE CURRENT M23 MBC DOES NOT SUPPORT PROJECTED MORTAR AMMUNITION ITEMS IN INVENTORY. THE IMPROVED MBC WILL BE CAPABLE OF ACCEPTING SOFTWARE UPGRADES ELECTRONICALLY, THUS REDUCING THE TIME AND COST CURRENTLY REQUIRED TO APPLY SOFTWARE UPGRADES VIA A HARDWARE CHANGE TO EACH FIELDED UNIT. THE FY96 PROCUREMENT SUPPORTS REPLACEMENT OF THE PRESENT M23 MBC WHICH PROVIDES BALLISTIC COMPUTATIONS FOR 60MM, 81MM, AND 120MM MORTAR FIRE MISSIONS AND PEACETIME TRAINING. A MORTAR BALLISTIC COMPUTER IS REQUIRED TO COMPUTE BALLISTICS, PROVIDE RESPONSIVE AND TIMELY FIRE SOLUTIONS, AND ELIMINATE HUMAN ERRORS FROM MANUAL CALCULATION OF FIRING INSTRUCTIONS, THEREBY PROVIDING ACCURATE ROUNDS ON TARGET.</p> <p>IDENT CODE: B</p>											
DD Form 2454, JUL 88		P-1 SHOPPING LIST					UNCLASSIFIED		PAGE 1 OF 6 PAGES		
		ITEM NO. 76 PAGE NO. 1							EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			A. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY2 COMMUNICATIONS AND ELECTRONICS		B. WEAPON Computer Ballistic: Mortar XM-23		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION UNKNOWN		D. DATE September 1984
Weapon System Cost Elements	Ident. Code	FY84 Unit cost	Qty Total Cost	FY85 Unit cost	Qty Total Cost	FY86 Unit cost	Qty Total Cost	FY87 Unit cost	Qty Total Cost
1. COMPUTER	B					14	302	15	69
2. INTEGRATED LOGISTICS SUPPORT							4320		1017
3. GOVT ENGINEERING SUPPORT							149		306
4. FIELDING							280		578
5. FIRST ARTICLE/PDN QUAL TEST							0		347
6. SOFTWARE UPGRADE							303		885
									1020
GROSS P-1 END COST							5052		4153
PROGRAM UNIT COST						17		60	
DD Form 2446, JUL 86			P-1 SHOPPING LIST			UNCLASSIFIED			PAGE 2 OF 5 PAGES EXHIBIT P-5

ITEM NO. **76** PAGE NO. 2

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 2, COMMUNICATIONS AND ELECTRONICS EQUIPMENT		C. P-1 ITEM NOMENCLATURE Computer Ballistics: Mortar XM-23								(K09200)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. COMPUTER											
FY96	UNKNOWN	OPTION	CECOM	MAR 96	FEB 97	208	14,305	NO	YES	MAR 96	
FY97	UNKNOWN	OPTION	CECOM	MAR 97	DEC 97	67	14,734	NO	YES	MAR 96	
D. REMARKS											

PRODUCTION SCHEDULE (EXHIBIT P-21)										P-1 ITEM NOMENCLATURE COMPUTER BALLISTICS: MORTAR XM-23										DATE February 1996											
FAC S PROCUREMENT QUANTITY										FISCAL YEAR 96										FISCAL YEAR 96											
NO.	C	FY					FY					FY					FY					FY					FY				
		94P	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	A	0																													
1	A		0																												
1	A			298																											
1	A				67																										
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365

FAC/MAN NAME & LOC	MIN	185	MAX	REACHED
1 UNKNOWN	N/A	N/A	N/A	

	PROCUREMENT LEAD TIME				TOTAL AFTER 1-OCT
	ADMIN LEAD TIME		PRODUCTION		
	PRIOR 1 OCT	AFTER 1 OCT			
INITIAL	3	6	12	18	
REORDER	3	6	9	15	

REMARKS

CODE "B" ITEM DESCRIPTION		DATE:	February 1994	REPORT CONTROL SYMBOL DD-COMP(AR) 1092
APPROPRIATION OTHER PROCUREMENT: ARMY2	ACTIVITY ACTIVITY 2 WEAPONS AND OTHER COMBAT VEHICLES	P-1 ITEM NOMENCLATURE: COMPUTER BALLISTICS: MORTAR XM-23		
1. CURRENT DEVELOPMENT AND TEST STATUS		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. DEV TEST & EVAL (DT&E) b. INITIAL OPER TEST & EVAL (IOT&E) c. OPER TEST & EVAL (OT&E) d. AVAIL DATE OF TECH DATA PKG OR PERFORMANCE SPECIFICATIONS		OCT 95 NOT REQUIRED DEC 95 MAR 96	NA NA NA	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE Type classified standard: Mar 1996				
3. EQUIPMENT ITEM(S) TO BE REPLACED M23 Mortar Ballistic Computer				
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED The current M23 memory capacity does not support projected mortar ammunition items planned for inventory. Software upgrades for this computer will be effected electronically, thus reducing time and cost required to apply software modifications. This item will also interface with other command and control communications devices, which the current MBC cannot do. The current computer is unique hardware and software and this new system will be a common hardware computer and ADA software.				
5. DEVELOPMENT CONTRACT INFORMATION				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THROUGH PYR	CYR
TOTAL RDT&E FUNDING		PE654802 D613	3.3	3.3
6. REMARKS				
Software development is being performed by Government personnel from the Armament Research, Development and Engineering Center, Picatinny Arsenal, NJ.				

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET										DATE FEBRUARY 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INTEGRATED METEOROLOGICAL SYSTEM (IMETS) (BM0021)											
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
QUANTITY			12	12	6								
COST (IN MILLIONS)		3.8	7.0	7.0	3.3	0.0	0.0	0.0	0.0				
<p>DESCRIPTION:</p> <p>IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3).</p> <p>IMETS is deployed in a single-shelter configuration at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR), and Special Operations Forces (SOF). Standard Integrated command Post Shelters (SICPS) mounted on High Mobility Multi-purpose Wheeled Vehicles (heavy) house the IMETS. Each system tows a 10-KW tactical quiet generator.</p> <p>The total system will utilize CHS, SICPS, vehicles, communications, Army software, and Air Force Automated Weather Distribution System (AWDS) developed software and weather products to support the Army.</p> <p>Each IMETS is configured identically and is capable of performing the following functions: (1) receive weather (WX) data from all available sources: WX satellites, local and remote WX sensors, higher, lower, and adjacent echelon IMETS, WX radar, artillery meteorology sections (ARTYMET), theater forecast units (TFUs), and USAF Global Weather Central; (2) process and display weather information, display weather radar data, weather satellite data and imagery, and Tactical Decision Aids (TDAs); (3) disseminate weather data, forecasts, and TDAs via area communications system, to all users and to other IMETS at higher lower, and adjacent echelons; (4) operate independently using HF receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned.</p> <p>JUSTIFICATION:</p> <p>With the advent of technologically precise weapons that use weather data input, it is imperative that the battlefield commander be provided the most accurate and current weather information. IMETS provides this information, allowing the commander to remain situationally aware through a common picture of the battlefield.</p> <p>FY 96 funds provide 12 IMETS: EAC (2), Corps (2), Div (3), SOF (4), Training (1)</p> <p>FY 97 funds provide 6 IMETS: Corps (1), Div (5)</p>													
IDENTIFICATION CODE: A													
UNCLASSIFIED		DD Form 2454, Jul 88				P-1 SHOPPING LIST				EXHIBIT P-40			
		ITEM NO 77				PAGE 1 of 3							

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					DATE FEBRUARY 1995	
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM (B28600)						
	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	FY 01
QUANTITY	146	116	221	222	235	229	237	115
COST (In Millions)	4.4	8.1	30.9	34.9	39.2	40.6	42.5	42.7
<p>DESCRIPTION: The AFATDS is a single, integrated battlefield management and decision support system. It will function on the digital battlefield at Battery through Corps level as one of the five battlefield automated systems of the Army Tactical Command and Control System (ATCCS). AFATDS utilizes evolving commercial technology of the ATCCS Common Hardware/Software (CHS) procurement.</p> <p>AFATDS is designed to overcome the size, vulnerability, high sustainment cost, limited functionality, central processing and training limitations of the present artillery battalion, division and corps fire direction systems. AFATDS will take advantage of advancing software technology, graphics, decision aids, and embedded training to expand the Fire Support functions. AFATDS will be the Fire Support node of the ATCCS utilizing the Army Common Operating Environment architecture and providing advanced software automation assistance to the Fire Support elements and interfacing with all subsystems subordinate to AFATDS and other nodes of the ATCCS via the standard communications media available to the force. AFATDS will provide all 27 Fire Support functions. These 27 functions are grouped in five Fire Support operational needs: Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Support, and Field Artillery Fire Direction Operations.</p> <p>Based on the organizational structure to be supported, AFATDS hardware items will be comprised of the following: Tactical Computer Units (TCU), Lightweight Computer Units (LCU), Tactical Communications Interface Modules, Printers, Tactical Display Devices, and Installation Kits tailored to the force structure and available vehicles. This will all be ATCCS Common Hardware. Responsiveness, survivability, and continuity of operations will be enhanced via dispersed processing centers, intelligent remote terminals, a distributed data base management system and distributed operations. AFATDS will interface/interoperate with all functional control elements of existing and future Army Fire Support Systems, including the other ATCCS Battlefield Functional Areas, systems, other services employing Fire Support Joint Interoperability Tactical Command and Control System message standards and Allied Forces using NATO Fire Support Standards.</p> <p>JUSTIFICATION: AFATDS will add greatly to the fire support of the battlefield through responsiveness, survivability and continuity of operations. It will overcome the shortcomings that exist in the present fire support system and provide a better capability to the commander. FY96 funds will procure equipment to complete fielding of the two test units and procure 4 Light Divisions. FY97 funds will procure equipment for 1 Heavy Division, 1 Armored Cavalry Regiment, 3 Field Artillery Brigades and 1 Corps Artillery Battalion.</p> <p>IDENT CODE B</p>								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

Weapon System Cost Elements	Ident. code	A. Appropriation		B. Weapon		C. Manufacturer Name		D. Date
		FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Total Cost
1. Hardware (1) (2)	B	\$67	(54)	\$67	(100)	\$58	(351)	(258)
2. Project Management Administration			\$3,639		\$6,739		\$20,435	\$19,782
3. Engineering Support			\$287		\$458		\$1,677	\$1,818
4. Interim Contract Support (ICS)			\$342		\$783		\$3,252	\$4,443
5. Fielding			\$132		\$161		\$432	\$513
Total Package Fielding			\$0		\$0		\$1,038	\$2,108
New Equipment Training			\$0		\$0		\$2,251	\$4,637
First Destination Transportation			\$0		\$0		\$1,812	\$1,574
TOTAL			\$4,400		\$8,141		\$30,897	\$34,875

(1) Quantities have been adjusted to reflect the current program structure.

(2) FY84 and FY85 hardware reflects procurement of Training Base requirements

FY86 Unit Cost reflects the average of additional Training Base, Lightweight Computer Units (LCU), Fire Support Control Terminals (FSC), and peripheral hardware.

FY87 Unit Cost increase reflects the greater proportion of higher cost FSCs and peripherals required for fielding.

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EXHIBIT P-5 Weapon System Cost Analysis

Page 2 of 6 Pages

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-4A)										A. DATE FEB 1995	
B. APPROPRIATION/BUDGET ACTIVITY Army 2, Communications and Electronics Equipment										C. P-1 ITEM NOMENCLATURE Advanced Field Artillery Tactical Data System (AFATDS) (B28600)	
Cost Element/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY94	MILTOPE Montgomery, AL	C/OPTION	CECOM	JAN 94	MAY 94	54	\$67,388	YES			
FY95	MILTOPE Montgomery, AL	C/OPTION	CECOM	JAN 95	MAY 95	39	\$85,321	YES			
	MILTOPE Montgomery, AL	C/OPTION	CECOM	JUN 95	OCT 95	24	\$85,321	YES			
	SAIC-LCU San Diego CA	C/OPTION	CECOM	JUN 95	NOV 95	37	\$16,859	YES			
FY96	TBS	C/OPTION	CECOM	JAN 96	MAY 96	111	\$99,054	YES			
	SAIC-LCU San Diego CA	C/OPTION	CECOM	JAN 96	JUN 96	240	\$39,366	YES			
FY97	TBS	C/OPTION	CECOM	JAN 97	MAY 97	134	\$99,477	YES			
	TBS-LCU San Diego CA	C/OPTION	CECOM	JAN 97	JUN 97	124	\$52,036	YES			
D. REMARKS This is not a Multi-year procurement.											

DD FORM 2448-1, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

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Exhibit P-5A Procurement History and Planning

ATTEN NOME CLATURE

Advanced Field Artillery Tactical Data System (AFATDS) (B-220000)

(02200001)

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FEBRUARY 1993

DD Form 2445, NH 97

ITEM NO 70

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Exhibit P-21 Production Schedule

CODE "B" ITEM DESCRIPTION		DATE	REPORT CONTROL SYMBOL			
APPROPRIATION	OTHER PROCUREMENT, ARMY 2.	February 1995	DD-COMP(AR)1092			
ACTIVITY - COMMUNICATIONS AND ELECTRONICS EQUIPMENT		P-1 ITEM NOMENCLATURE ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM (AFATDS) (B28600)				
1. CURRENT DEVELOPMENT AND TEST STATUS						
FORCE DEV TEST & EXP (FDT&E) (V1) INITIAL OPERATIONAL TEST & EVAL (IOT&E) (V1) ASARC III AVAILABLE DATA FOR TECH DATA PKG (TDP) OR PERFORMANCE SPECS		Schedule Date Current (1) Jan 84 Jul 85 Nov 85 Mar 91	Reason For Delay (3) Jan 84 Jul 85 Nov 85 Mar 91			
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE Nov 1995						
3. EQUIPMENT ITEM(S) TO BE REPLACED Battery Computer System (BCS), Light TACFIRE, Initial Fire Support Automated System (IFSAS), Fire Support Ada Conversion (FSAC)						
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED AFATDS will provide full automation of all Fire Support functions						
5. DEVELOPMENT CONTRACT INFORMATION (PE 0203728A / D322) RDT&E FUNDING PROFILE (\$ IN MILLIONS)						
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PRIOR YEAR FY84 (4)	CURRENT YEAR FY85 (5)	BUDGET YEAR FY86 (6)	BEYOND BUDGET YEAR FY87 - 01 (7)
Magnavox	Fl. Wayne, Indiana	AFATDS D&V Contractor	\$148.9	\$32.1	\$28.9	\$32.6
Other Contractual Efforts	Various Locations		\$105.5	\$4.3	\$3.2	\$8.6
Other			\$48.8	\$8.8	\$7.3	\$10.0
Total RDT&E Funding			\$301.2	\$45.0	\$39.4	\$51.2
6. REMARKS						
Reference entries on attachment to P-19 if additional space is required to explain delay from previous date.						
DD FORM 2443, JUN 88		Unclassified CLASSIFICATION		P-1 SHOPPING LIST ITEM NO. 78		Page 6 of 6 Pages EXHIBIT P-19 PAGE NO.

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					DATE FEBRUARY 1995	
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE FIRE SUPPORT ADA CONVERSION (FSAC) (B78400)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	300	289	0	0	0	0	0	0
COST (In Millions)	18.0	11.5	0	0	0	0	0	0
<p>DESCRIPTION:</p> <p>The Fire Support Ada Conversion (FSAC) is composed of two software programs to provide Command and Control at corps through platoon level for Multiple Launch Rocket System (MLRS) units and for tactical fire control for cannon units at platoon and battery levels.</p> <p>These two programs involve: (a) rewriting the Battery Computer System (BCS) cannon software from the Symbolic Interpretive Routine (SIR) language into Ada and replacing the BCS hardware (AN/GYK-29) with Army Tactical Command and Control System (ATCCS) common hardware (AN/GYK-37/LCU based system), and (b) rewriting the current MLRS Fire Direction System (FDS) software from SIR to Ada and replacing the Battery Computer Unit (BCU) (a modified AN/GYK-29) both at the battery level and as a stand-alone FDS at the platoon level, with ATCCS common hardware (AN/GYK-37/LCU based system). The software structure has been rewritten to provide a more flexible and mature design.</p>								
<p>JUSTIFICATION:</p> <p>FY96/97 funds -- N/A</p>								
<p>IDENT CODE A</p>								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

Weapon System Cost Elements	Ident. code	A. Appropriation Other Procurement, Army 2 Comm & Electronics Equipment		B. Weapon Fire Support Ada Conversion (FSAC) (B78400)		C. Manufacturer Name SAIC San Diego, CA		D. Date FEBRUARY 1995	
		FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	Qty Total Cost
1. Hardware (1) (2)	A	\$32	(412) \$13,107	\$45	(100) \$4,462				
2. Project Management Administration			\$595		\$862				
3. Engineering Support			\$3,005		\$3,203				
4. Interim Contract Support (ICS)			\$0		\$0				
5. Fielding									
a. Total Package Fielding			\$662		\$1,699				
b. New Equipment Training			\$627		\$1,218				
c. First Destination Transportation			\$21		\$85				
TOTAL			\$18,017		\$11,529				

(1) Quantities have been adjusted to reflect the current program structure.

(2) Higher unit cost shown in FY95 reflects procurement of LCUs as well as the planned upgrade of previously procured LCUs to the current approved configuration.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1995	
B. APPROPRIATION/BUDGET ACTIVITY Army 2, Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE Fire Support Ada Conversion (FSAC) (B78400)						
Cost Element/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY 94	SAIC-LCU San Diego CA	C/OPTION	CECOM	NOV 93	APR 94	412 (1)	\$31,813	YES			
FY 95	SAIC-LCU San Diego CA	C/OPTION	CECOM	JAN 95	JUN 95	61 (1)	\$44,620	YES			
FY 95	SAIC-LCU San Diego CA	C/OPTION	CECOM	MAR 95	AGO 95	39 (1)	\$44,620	YES			
D. REMARKS This is not a Multi-year procurement. (1) Quantities have been adjusted to reflect the current program structure.											

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET							DATE
DD-COMP (AR) 1092									FEBRUARY 1995
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE Initial Fire Support Automation System (IFSAS) B78100							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY		21	0	0	0	0	0	0	0
COST (In Millions)		21.4	0	0	0	0	0	0	0
DESCRIPTION:									
<p>The Initial Fire Support Automated System (IFSAS) is composed of the Light Tactical Fire Direction (LTACFIRE) system software ported to the Army Tactical Command and Control System (ATCCS) Lightweight Computer Unit (LCU).</p> <p>For the Active Component (AC): IFSAS replaces TACFIRE and Variable Format Message Entry Devices (VEMED), as well as the Fire Support Team Digital Message Device (FIST DMD) in Light Divisions. IFSAS hardware fielded becomes part of the AFATDS architecture. IFSAS replaces 60's technology while generating O&S savings by replacing TACFIRE.</p> <p>For the National Guard (NG) units: IFSAS is the first automated Command and Control system for fire support. IFSAS is fielded to Fire Direction Centers (FDC) and Fire Support Elements (FSE).</p> <p>IFSAS automates the fire mission processing functions to include Tactical Fire Direction, Fire Support Target Analysis, Artillery Target Analysis, Non-nuclear Fire Planning, Support Geometry Display, Meteorological Data Processing, and Ammunition and Fire Unit Accounting.</p>									
JUSTIFICATION:									
FY96/97 funds -- N/A									
IDENT CODE A									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

Weapon System Cost Elements	Ident. code	A. Appropriation		B. Weapon		C. Manufacturer Name		D. Date
		FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	Initial Fire Support Automation System (IFSAS) B78100	SAIC-LCU San Diego, CA	
1. Hardware (1) (2)	A		(305)					
a. Hardware Procurement		\$33	\$10,010					
b. Upgrades			\$701					
2. Project Management Administration			\$345					
3. Engineering Support			\$4,963					
4. Interim Contract Support (ICS)			\$0					
5. Fielding								
a. Total Package Fielding			\$2,572					
b. New Equipment Training			\$2,593					
c. First Destination Transportation			\$203					
TOTAL			\$21,387					

(1) FY 94 hardware includes upgrade costs to prior year quantities.
 (2) FY 94 quantities have been adjusted to reflect the current program structure.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY Army 2, Communications and Electronics Equipment						C. P-1 ITEM NOMENCLATURE Initial Fire Support Automation System (IFSAS) B78100				
Cost Element/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY 94	SAIC-LCU San Diego CA	C/OPTION (1)	CECOM	FEB 94	JUL 94	305	\$32,820	YES		
D. REMARKS This is not a Multi-year procurement. (1) To be procured against an existing contract.										

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1995
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Comm & Electronics Equipment		P-1 ITEM NOMENCLATURE Control System (CSSCS)(W34600)					Combat Service Support	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY		42	29	35	33	14	117	126
COST (In Millions)	\$	6.0	\$ 5.9	\$ 6.0	\$ 6.1	\$ 6.1	\$ 14.9	\$ 14.9
<p>DESCRIPTION: Combat Service Support Control System (CSSCS) is one of the five Battlefield Functional Area (BFA) systems within the Army Tactical Command and Control System (ATCCS). The CSSCS will rapidly collect, analyze and disseminate CSS information to support the functions of command, control and resource management. CSS commanders and staffs are currently participating in the force level planning and decision-making processes through a manual effort of gathering correlating, and analyzing volumes of technical data from the existing Standard Army Management Information Systems (STAMIS). CSSCS will provide timely situational awareness and force projection to determine capability to support current operations and sustain future operations. CSSCS uses evolving commercial computer technology of the ATCCS Common Hardware/Software (CHS). CSSCS will be deployed at echelons above corps, divisions, maneuver brigades and armored cavalry regiments. The total OPA requirement for Force Package One for CSSCS is 481 systems.</p> <p>JUSTIFICATION: FY96/97 funds will support the procurement and fielding of the CSSCS as an integral node of the Army Tactical Command and Control System (ATCCS), completing III Corps and beginning XVIII Airborne Corps. This automated CSSCS node is required to support the fielding and operation of ATCCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely prediction and situation analyses. CSSCS will provide the commanders and their staffs timely situational awareness and force projection information. It will be part of the Army Global Command and Control System. It will greatly enhance the commander's ability to make timely decisions, allocate resources, and fight the battle.</p>								
IDENTIFICATION CODE B								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		a. Appropriation/Budget: Other Procurement, Army 2 Comm & Electronics Equipment		b. Weapon Model Name: Combat Service Support Control System (CSCS) (W34600)		c. Mfg Name: Millope Montgomery, AL		d. Date February 1995	
WEAPON SYSTEM COST ELEMENT	Ident.	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Unit Cost
1. Hardware *	B								
TCU				\$64	3,264				
LCU									
2. Project Mgt Adm					637		233		240
3. Engr Spt					656		816		841
4. Fielding					481		515		510
TPF					330		353		350
NET					87		139		98
FDT									
5. ICS					0		412		422
6. Other **					522		474		456
TOTAL					5,977		5,915		6,046
* Quantities have been adjusted to reflect current program structure.									
**Category includes integration & assembly; smoke test; data; and common ATCCS logistics									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)) a. Date February 1995

b. Appropriation/Budget Activity : c. P-1 Item Nomenclature: Combat Service Support
 Other Procurement, Army 2 : Control System (CSCS)(W34600)
 Comm and Electronics Equipment

Cost Element/ Fiscal Year	Contractor & Location	Contract Method & Type	Contracted By	Award Date	Date First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Req'd	If Yes, When Avail
CHS/FY95	Miltope Montgomery, AL	C/Option	CECOM	MAR 95	JUL 95	51	\$64,000	Yes		
CHS/FY96	TBS	C/Option	CECOM	JAN 96	MAY 96	53	\$56,094	Yes		
CHS/FY97	TBS	C/Option	CECOM	JAN 97	MAY 97	34	\$61,647	Yes		
LCU/FY97	TBS	C/Option	CECOM	JAN 97	JUN 97	17	\$60,765	Yes		

d. Remarks

This is not a multiyear procurement. The CHS 2 contract is scheduled for award in March 1995.

Quantities have been adjusted to reflect current program structure.

UNCLASSIFIED CLASSIFICATION		DATE	REPORT CONTROL SYMBOL DD-COMP(AR)1092
CODE "B" ITEM DESCRIPTION	ACTIVITY - Comm & Electronics Equipment	February 1995	Combat Service
APPROPRIATION Other Procurement, Army 2	P-1 ITEM NOMENCLATURE Support Control System (CSCS)(W34600)		
1. CURRENT DEVELOPMENT AND TEST STATUS		Schedule Date	
		Current	
A. INITIAL OPER TEST & EVAL (IOT&E)		Jul-Sep 94	
B. FIRST UNIT EQUIPPED (FUE)		Mar 95	
C. MSIII/PRODUCTION DECISION		Mar 95	
D. INITIAL OPERATIONAL CAPABILITY (IOC)		Jul 95	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE		Mar 1995 (MS III)	
3. EQUIPMENT ITEM(S) TO BE REPLACED		N/A	
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED		N/A	
5. DEVELOPMENT CONTRACT INFORMATION PE 0603805/AD091			
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	RT&E FUNDING PROFILE (\$ IN MILLIONS)
TRW	Carson, CA	Software	THROUGH PRIOR YEA (4) FY-94
MARTIN-MARIETTA	Springfield, VA	Software	CURRENT YEAR (5) FY-95
			BUDGET YEAR (6) FY-96
			BEYOND BUDGET YEAR (7) FY97-01
Other			
TOTAL RDT&E FUNDING			
6. REMARKS: * Software contractor through Jan 1996			
UNCLASSIFIED CLASSIFICATION		P-1 SHOPPING LIST ITEM NO. 81	Page 6 of 6 Pages EXHIBIT P-19
DD FORM 2443, JUN 86			

BUDGET ITEM JUSTIFICATION SHEET

DATE:
FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

Other procurement, Army 2, Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

Forward Area Air Defense Command and Control (FAAD C2) (AD 5050)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	0	1	5	5	1	2	0	0
COST (in Millions)	13.3	14.2	32.9	38.2	16.8	12.6	0.0	0.0

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for the weapons systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Ground Based Sensor), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Division (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting Systems (EPLRS) portion of ADDS, additional SINGARS radios were added to transmit data. The next fielding is scheduled for the 2nd Infantry Division in FY 95. The Defense Acquisition BOARD (DAB) is planned for the third quarter of FY 95 for Milestone III to provide initial software capability for fielding to heavy divisions and remaining units.

ID CODE: B

Justification: FY 96 and FY 97 dollars will be used to procure Common Hardware Software (CHS) computers, displays, software, and Joint Tactical Information Distribution System (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade and battalion to the individual shooter. FAAD C2 also enables alerting the air defense gunners, enhances capability for air space management, and automated uptell of acknowledgement of mission and unit position, ultimately enhancing protection to the force.

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)				A. Appropriation/Budget Activity Title/No. OPA 2-COMM AND ELECTRONIC EQUIP		B. WEAPON MODEL/SERIES/POPULAR NAME FAAD C2		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION MILTOPE, MONTGOMERY, AL		D. DATE Month/Year FEBRUARY 1995	
Weapon System Cost Elements		Ident Code	FY84 Unit Cost	Qty Total Cost	FY85 Unit Cost	Qty Total Cost	FY86 Unit Cost	Qty Total Cost	FY87 Unit Cost	Qty Total Cost	
1. HARDWARE-CHS HARDWARE-JTIDS		B	3,398	(2) 6,796	4,242	(2) 8,483	3,212	(4)12,848 12,877	4,111	(4) 16,443 14,948	
2. PROJECT MGT ADMIN				2,800		2,020		2,080		2,142	
3. FIELDING											
TPF				754		768		761		776	
NET				450		1,216		2,580		2495	
FDT				200		36		329		339	
4. INTERIM CONTRACTOR SUPPORT				600		1,010		671		654	
5. ENGINEERING SUPPORT				1,700		617		796		439	
TOTAL				(2)13,300		(2) 14,150		(4) 32,942		(4) 38,236	
* QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS, WITH VARIATIONS IN SIZES BASED ON SPECIFIC MISSION REQUIREMENTS AND AND EQUIPMENT REQUIRED. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIVISION, LIGHT DIVISION, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIVISION). FY 96 THROUGH FY 98 INCLUDES COSTS TO PROCURE JTIDS.											
Quantities have been adjusted to reflect current program structure.											

* QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS, WITH VARIATIONS IN SIZES BASED ON SPECIFIC MISSION REQUIREMENTS AND EQUIPMENT REQUIRED. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIVISION, LIGHT DIVISION, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIVISION). FY 96 THROUGH FY 98 INCLUDES COSTS TO PROCURE JTIDS.

Quantities have been adjusted to reflect current program structure.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A DATE: FEBRUARY 1995

C. P-1 ITEM NOMENCLATURE

Forward Area Air Defense Command and Control AD5050

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2, Communications and Electronic Equip

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
HARDWARE										
FY 1994	MILTOPE, MELVILLE, NY	C/OPTION	CECOM	FEB 94	JUN 94	2	3,398			
FY 1995	MILTOPE, MELVILLE, NY	C/OPTION	CECOM	DEC 94	APR 95	2	4,242			
FY 1996	TBS	C/OPTION	CECOM	DEC 95	APR 96	4	3,212			
FY 1997	TBS	C/OPTION	CECOM	DEC 96	APR 97	4	4,111			

D. REMARKS

THESE ARE NOT MULTI-YEAR PROCUREMENTS

DELIVERY DATE REPRESENTS CONTRACTOR DELIVERY TO GOVERNMENT DEPOTS. TOTAL LEADTIME TO INCLUDE PROCUREMENT OF HARDWARE AND INTEGRATION OF HARDWARE AND SOFTWARE IS APPROXIMATELY 13 MONTHS.

QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS, WITH VARIATIONS IN SIZES BASED ON SPECIFIC MISSION REQUIREMENTS AND EQUIPMENT REQUIRED. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIVISION. LIGHT DIVISION, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIVISION).

FY96/97 BUDGET PRODUCTION SCHEDULE

DATE FEBRUARY 1995

P-1 ITEM HOMECLATURE
FORWARD AREA AIR DEFENSE COMMAND AND CONTROL SYSTEM
(FAADC21) (AD5050)

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 2
Communications and Electronics Equipment

ITEM/MANUFACTURER PROCUREMENT YEAR	S E R V	ACCEP PRIOR TO 1-Oct 93	BAL DUE AS OF 1-Oct 93	FISCAL YEAR 1994												FISCAL YEAR 1995												FISCAL YEAR 1996												L A T R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME			REMARKS:		
	MIN	1-8-5	MAX	1-8-5	MAX	ADMIN LEAD TIME			The TCUs, HTUs, and LCUs are commercial items being procured on the Common Hardware/Software contracts. The quantities shown do not represent total production line output. Production leadtime is 4 months; total leadtime to include integration of hardware and software is approximately 13 months.		
	25	300	600	4	4	INITIAL	2	2	6	6	6

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE

FORWARD AREA AIR DEFENSE COMMAND AND CONTROL SYSTEM

(FAADC2I) (AD5050)

[illegible]

CODE "B" ITEM DESCRIPTION		DATE	REPORT CONTROL SYMBOL
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 2 - Communications and Electronic Equipment		FEBRUARY 1995	DD-COMP(AR)1092
P-1 ITEM NOMENCLATURE FORWARD AREA AIR DEFENSE COMMAND AND CONTROL (FAAD C2) (AD 5050)			
1. CURRENT DEVELOPMENT AND TEST STATUS			
		SCHEDULE DATE	
		CURRENT 1	LAST REPORTED 2
		4QFY94 1QFY95 2QFY97 4QFY99	COMPLETE COMPLETE
		4QFY99	REASON FOR DELAY 3
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE			
LOW RATE INITIAL PRODUCTION DECISION APPROVED JUN 93 FOR BLOCK I ONLY; FSP FOR BLOCK II PLANNED FOR 3QFY95; FSP FOR BLOCK III PLANNED 3QFY99.			
3. EQUIPMENT ITEM(S) TO BE REPLACED			
MANUAL SYSTEM			
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED			
INITIAL REPLACEMENT OF MANUAL SYSTEM WITH FULLY AUTOMATED SYSTEM			
5. DEVELOPMENT CONTRACT INFORMATION PE 0604741A/D126			
CONTRACTOR NAME 1	PLANT LOCATION 2	COMPONENT 3	THROUGH FY94 4
TRW	DOMINGUEZ HILLS, CA	FAAD C2SW BL I	FY95 5
TRW	DOMINGUEZ HILLS, CA	FAAD C2 SW BL II	FY96 6
TRW	DOMINGUEZ HILLS, CA	FAAD C2 SW BL III	FY97 7
OTHER/IN HOUSE			FY98-FY01 8
TOTAL RDT&E FUNDING			
REMARKS			
BLOCK I PROVIDES FIELDING OF FULL SOFTWARE CAPABILITY TO LIGHT DIVISIONS; BLOCK II WILL PROVIDE FIELDING OF INITIAL SOFTWARE CAPABILITY TO HEAVY DIVISIONS; BLOCK III WILL PROVIDE OBJECTIVE SOFTWARE CAPABILITY TO ALL AIR DEFENSE UNITS.			

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET					DATE		
DD-COMP (AR) 1092							February 1995		
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Other Procurement, Army 2 - Comm and Electronics Equipment		P-1 ITEM NOMENCLATURE FORWARD ENTRY DEVICE (FED) (BZ9851)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (In Millions)	21.9		0.1	0	0	0	0	0	0
<p>DESCRIPTION:</p> <p>The Forward Entry Device (FED) is a handheld, programmable input/output device used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios.</p> <p>The FED will be used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) battery commanders and Fire Support Team (FIST) personnel and in the Light Divisions by the Combat Observation Lasing Teams (COLTS) and the FA battery commanders.</p> <p>The FED was initially fielded with the Forward Observer/Fire Support Team (FO/FIST) software (an ADA recode of the FIST Digital Message Device (DMD) software). The FO Command and Control (FOCC) software enables the user to plan, control, and execute fire support operations at maneuver platoon, company, battalion, and brigade levels. The FOCC devices are employed as the initial data entry point for information inputs into computer centers from remote locations.</p> <p>The Meteorological Survey software, used with FED supports meteorological and survey computations and command and control messages.</p> <p>JUSTIFICATION</p> <p>Program is complete after FY95.</p> <p>IDENT CODE A</p>									

WEAPON SYSTEM COST ANALYSIS **EXHIBIT (P-5)**

Weapon System Cost Elements	Ident code	A. Appropriation Other Procurement, Army 2- Comm & Electronics Equipment		B. Weapon Forward Entry Device (FED) (BZ9851)		C. Manufacturer Name MILTOPE Melville, NY		D. Date February 1995	
		FY 94 Unit Cost	FY 94 Qty Total Cost (K\$)	FY 96 Unit Cost (K\$)	FY 96 Qty Total Cost (K\$)	FY 97 Unit Cost (K\$)	FY 97 Qty Total Cost (K\$)		
1. Hardware		16,558.00	(754) \$12,485		(0)	\$0		\$0	
2. Project Management Administration			\$256		\$0				
3. Engineering Support (1)			\$5,093		\$0				
4. Fielding			\$4,019		\$99				
TOTAL			\$21,853		\$99				

(1) Includes prime contractor for software support

EXHIBIT P-5 Weapon System Cost Analysis

Page 2 of 4 Pages

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 2 - Comm and Electronics Equipment						C. P-1 ITEM NOMENCLATURE Forward Entry Device (FED) BZ0851				
Cost Element/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY 94	MILTOPE Melville, NY	C/OPTION	CRCOM	JAN 94	JUL 94	754	\$16,550	YES		
D. REMARKS										

PRODUCTION SCHEDULE (EXHIBIT P-21)										DATE February 1995		REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092																																																																																																																									
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 2- Comm and Electronics Equipment										P-1 ITEM NOMENCLATURE Forward Entry Device (FWD) (850851)																																																																																																																											
FISCAL YEAR 1994										FISCAL YEAR 1995		FISCAL YEAR 1996																																																																																																																									
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NO.	FY	FY	FY	FY	FY	FY	FY	FY	FY																																																																																																																												
TOTAL MONTHLY PRODUCTION										2400		855																																																																																																																									

REMARKS:

THE FED IS A COMMERCIAL ITEM BEING PROCURED OFF THE COMMON HARDWARE/SOFTWARE CONTRACT DAAB07-88-C-0015

PROCUREMENT LEAD TIME			
ADMIN LEAD TIME	PRODUCTION	REORDER	INITIAL
PRIOR 1 OCT	AFTER 1 OCT		
1	6	7	7

FAC NO	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES MIN 1-3-5	MAX 10 DAY	MO TO MAX AFT
1	ML TOPE MAVERA, NY	50	200	6

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE											
COMMON HARDWARE AND SOFTWARE										(BZ9860)	
Other Procurement: Army 2											
Communications and Electronics Equipment											
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY		0	0	0	0	0	0	0	0		
COST (IN MILLIONS)		18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

DESCRIPTION: Common Hardware/Software (CHS) is the Army's program to equip all five Battlefield Functional Areas (BFAs) of the Army Tactical Command and Control System (ATCCS), Corps to foxhole, with common hardware/software. The overall goal is to improve interoperability and lower life cycle costs by standardizing Battlefield Command and Control (C2) automation through centralized buys of non-developmental items, standard protocol and reusable software. Four hardware versions are available to meet the specific needs of each BFA; handheld, portable, transportable, and Lightweight Computer Unit (LCU).

JUSTIFICATION: FY96/97: N/A

IDENT CODE A

UNCLASSIFIED		DD Form 2464, Jul 88		P-1 SHOPPING LIST		EXHIBIT P-40	
		ITEM NO 85		PAGE 1 of 3			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T							DATE: February 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 2 - COMM AND ELECTRONICS EQUIPMENT		P-1 ITEM NOMENCLATURE LIFE CYCLE SOFTWARE SUPPORT (LCSS)							(BD3955)	
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
COST(IN MILLIONS)	1.8	1.7	2.1	2.1	2.1	1.6	1.0	2.0		
<p>DESCRIPTION: LIFE CYCLE SOFTWARE ENGINEERING (LCSE) SUPPORT, BY THE SOFTWARE ENGINEERING DIRECTORATE (SED), PROVIDES THE ESSENTIAL SERVICES NEEDED TO MAINTAIN CECOM MANAGED FIELDABLE BATTLEFIELD AUTOMATED SYSTEMS (BAS) IN A STATE OF OPERATIONAL READINESS. THE MOBILE SUBSCRIBER EQUIPMENT, MANEUVER CONTROL SYSTEMS, FIREFINDER, TACFIRE, TRITAC SWITCHES, REGENCY NET, AND INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS ARE SOME OF THE 221 BASs SUPPORTED BY THE SED THAT DIRECTLY DEPEND ON LCSE SUPPORT TO MAINTAIN A POSTURE OF MISSION CRITICAL READINESS. ADEQUATE FUNDING FOR LCSE SUPPORT IS ESSENTIAL FOR THE ACQUISITION, OPERATION, MAINTENANCE AND SUSTAINMENT OF MULTI-HOST COMPUTER SYSTEMS, PERIPHERALS, INTERFACES, SUPPORT EQUIPMENT, TEST BEDS, COMPONENTS, AND SOFTWARE USED TO PROVIDE THE NECESSARY SERVICES AND SUPPORT TO MAINTAIN BASs IN A STATE OF OPERATIONAL READINESS.</p> <p>JUSTIFICATION: FY 96 WILL CONTINUE AN INCREASE IN THE DATA STORAGE CAPACITY AND THE COMPUTER PROCESSING CAPABILITY OF MULTI-HOST COMPUTER SYSTEMS REQUIRED TO MAINTAIN OPERATIONAL READINESS OF DEPLOYED BASs, IN SUPPORT OF THE SOLDIER IN THE FIELD. THIS INCREASE IN CAPACITY AND CAPABILITY REQUIREMENTS WILL CONTINUE THROUGH FY 97 AND WILL BE AN INCREASE IN THE NEED TO PROVIDE PROGRAMMING SECURITY, CONFIGURATION MANAGEMENT, TEST BEDS, NETWORKS, SOFTWARE DEVELOPMENT TOOLS, AND COMPUTER SYSTEMS USED TO MAINTAIN HOST SYSTEM SOFTWARE. IN ADDITION, THERE WILL BE AN INCREASED NEED TO CORRECT LATENT APPLICATION SOFTWARE DEFECTS AND RESPOND TO EMERGENCY REQUESTS FROM THE FIELD FOR SOFTWARE ENGINEERING SUPPORT, IN ORDER TO MAINTAIN OPERATIONAL READINESS OF DEPLOYED BASs. WITH HOST COMPUTERS, PERIPHERALS (e.g., MEMORY STORAGE DEVICES, TERMINALS, KEYBOARDS, AND PRINTERS, MEDIA AND REPLICATION EQUIPMENT) HAVING A LIFE-SPAN OF APPROXIMATELY FIVE YEARS AND THE SED PERFORMING ITS MISSION OVER A CONTINUOUS PERIOD OF TIME BEYOND FIVE YEARS, EQUIPMENT MUST BE REPLACED AND/OR UPGRADED REGULARLY TO DEAL WITH OBSOLESCENCE AND TO TAKE ADVANTAGE OF THE CONTINUAL IMPROVEMENTS IN TECHNOLOGY THAT ARE INDIGENOUS TO HIGH-TECHNOLOGY BASED WEAPON SYSTEMS AND THEIR SOFTWARE SUPPORT ENVIRONMENTS, IN ORDER TO MEET THE EVER INCREASING MISSION REQUIREMENTS IMPOSED BY THE FIELD. FUNDING FOR THIS TASK IS ESSENTIAL TO PROVIDE AND MAINTAIN THE SOFTWARE SUPPORT ENVIRONMENTS AND LCSE SUPPORT REQUIRED TO MAINTAIN FIELDABLE BASs IN A STATE OF OPERATIONAL READINESS, WORLDWIDE, TO SUPPORT THE SOLDIER IN THE FIELD.</p>										

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-8)		A. APPROPRIATION NO. Other Procurement, Army 2 - Comm and Electronics Equipment				B. WEAPON MODEL/SERIES/POPULAR NAME LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				C. MANUF Numerous See P5a	D. DATE February 1995
WEAPONS SYSTEM COST ELEMENTS	IDENT CODE	FY84		FY85		FY86		FY87		UNIT COST	TOTAL COST
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY		
SYSTEM UPGRADE			5	1,264	5	846	6	1,564	5		1,274
SW TOOLS			1	365	2	489	1	351	2		487
SW STORAGE			1	117			1	117			
DIGITAL OSCILLOSCOPE			2	64			2	64			
SW PROGRAMMER					4	280			4		280
UNIVERSAL TAPE					1	70			1		70
TOTALS			9	1,810	12	1,685	10	2,096	12		2,111

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY							C. P-1 ITEM NOMENCLATURE				A. DATE	
Other Procurement, Army 2 - Comm and Electronics Equipment							LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3966)				February 1988	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL		
84												
VAXCLUSTER HSC 50 UPGRADE	TELOS	C/TM	CECOM	Feb 94	May 94	1	204,000	YES	NO			
VAX LAN ULTRIX UPGRADE	TELOS	C/TM	CECOM	Mar 94	Jun 94	1	241,500	YES	NO			
ETHERNET UPGRADE	FT. SILL	C/FP	CECOM	Feb 94	May 94	1	300,000	YES	NO			
S/ DEVELOP TOOLS	NATIONS	C/TM	CECOM	Feb 94	May 94	1	365,000	YES	NO			
ENVIRONMENT UPGRADE	ILEX	C/TM	CECOM	Feb 94	May 94	1	300,000	YES	NO			
DOCUMENT STORAGE	WHITTAKER	C/TM	CECOM	Mar 94	Jun 94	1	117,000	YES	NO			
RSS UPGRADE/ HOST	ARINC	C/TM	CECOM	Feb 94	May 94	1	218,500	YES	NO			
DIGITAL OSCILLOSCOPE	GTE	C/TM	CECOM	Feb 94	May 94	2	32,000	YES	NO			

D. REMARKS:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY							C. P-1 ITEM NOMENCLATURE		A. DATE	
Other Procurement, Army 2 - Comm and Electronics Equipment							LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3965)		February 1995	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
96										
IBM 4341 UPGRADE	TBS	C/FP	CECOM	Nov 94	Feb 95	1	100,000	YES	NO	
PCB/BOX LVL PROGRAMMERS	TBS	C/FP	CECOM	Feb 95	May 95	4	70,000	YES	NO	
SW DEVELOPMENT TOOLS	TBS	C/FP	CECOM	Feb 95	May 95	2	244,500	YES	NO	
SW DEVELOPMENT ENVIR UPGRADE	TBS	C/FP	CECOM	Mar 95	Jun 95	3	202,000	YES	NO	
ETHERNET UPGRADE HW	TBS	C/FP	CECOM	Mar 95	Jun 95	1	140,000	YES	NO	
UNIVERSAL TAPE REPLICA	TBS	C/FP	CECOM	Feb 95	May 95	1	70,000	YES	NO	
D. REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 2 - Comm and Electronics Equipment							C. P-1 ITEM NOMENCLATURE LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)		A. DATE February 1996	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
96										
VAXCLUSTER HSC 50 UPGRADE	TELOS	C/TM	CECOM	Feb 96	May 96	1	204,000	YES	NO	
VAX LAN ULTRIX UPGRADE	TBS	C/TM	CECOM	Mar 96	Jun 96	1	241,500	YES	NO	
ETHERNET UPGRADE	TBS	C/FP	CECOM	Feb 96	May 96	1	300,000	YES	NO	
S/W DEVELOPMENT TOOLS	TBS	C/TM	CECOM	Feb 96	May 96	1	351,000	YES	NO	
ENVIRONMENT UPGRADE	ILEX	C/TM	CECOM	Feb 96	May 96	1	300,000	YES	NO	
DOCU STORAGE	TBS	C/TM	CECOM	Mar 96	Jun 96	1	117,000	YES	NO	
RSS UPGRADE/HOST	ARINC	C/TM	CECOM	Feb 96	May 96	1	218,500	YES	NO	
MULTI-TADIL UPGRADE	TBS	C/TM	CECOM	Mar 96	Jun 96	1	300,000	YES	NO	
DIGITAL OSCILLOSCOPE	GTE	C/TM	CECOM	Feb 96	May 96	2	32,000	YES	NO	

D. REMARKS:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Comm and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)

LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
97										
IBM 4341 UPGRADE	TBS	C/FP	CECOM	Nov 96	Feb 97	1	200,000	YES	NO	
SW DEVELOPMENT ENVIR UPGRADE	TBS	C/FP	CECOM	Mar 97	Jun 97	3	302,000	YES	NO	
ETHERNET UPGRADE H/W	TBS	C/FP	CECOM	Mar 97	Jun 97	1	168,000	YES	NO	
SW DEVELOPMENT TOOLS	TBS	C/FP	CECOM	Feb 97	May 97	2	243,500	YES	NO	
PCB/BOX LVL PROGRAMMERS	TBS	C/FP	CECOM	Feb 97	May 97	4	70,000	YES	NO	
UNIVERSAL TAPE REPLICA	TBS	C/FP	CECOM	Feb 97	May 97	1	70,000	YES	NO	

D. REMARKS:

BUDGET ITEM JUSTIFICATION SHEET

DATE
February 1995

APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

LOGTECH (BZ88889)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (In Millions)	\$ 3.5	\$ 4.6	4.5	\$ 4.6	\$ 3.6	\$ 3.6	\$ 4.9	\$ 4.9

DESCRIPTION:

LOGTECH or Automatic Identification Technology (AIT) consists of various barcode scanning devices (both batch collection and radio frequency based), barcode label and page printers, and various data carrier devices with their associated readers and writers. These data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite the functions of receiving, distribution, storage, inventory management and property accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment across the Services.

JUSTIFICATION:

FY96 and FY97 fieldings support Depot Systems Command, Major Commands, the DoD LOGMARS program and Army STAMIS with Portable Data Collection Devices and printers, Radio Frequency Portable Data Collection Device Networks and Automated Manifest System. Funds will continue these initiatives essential to satisfy logistics requirements in the tactical and non-tactical arenas.

(Identification Code A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

February 1995

C. P-1 ITEM NOMENCLATURE
LOGTECH (BZ8889)

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM/FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQD	IF YES, WHEN AVAILABLE
DCD*										
FY94	INTERMEC	C/FP	ISSAA	MAR 94	JUL 94	1,156	2	YES		
FY95	INTERMEC	OPTION	ISSAA	MAY 95	AUG 95	685	2	YES		
FY96	INTERMEC	OPTION	ISSAA	DEC 95	MAR 96	365	2	YES		
FY97	INTERMEC	OPTION	ISSAA	DEC 96	MAR 97	360	2	YES		
BAR CODE PRINTER**										
FY94	INTERMEC	C/FP	ISSAA	MAR 94	JUL 94	830	2	YES		
FY95	INTERMEC	OPTION	ISSAA	MAY 95	AUG 95	421	2	YES		
FY96	INTERMEC	OPTION	ISSAA	DEC 95	MAR 96	244	2	YES		
FY97	INTERMEC	OPTION	ISSAA	DEC 96	MAR 97	244	2	YES		
COM DEVICES & MODEMS***										
FY94	INTERMEC	C/FP	ISSAA	MAR 94	JUL 94	22	...	YES		
RFPCD NETWORK****										
FY95	INTERMEC	OPTION	ISSAA	MAY 95	AUG 95	100	22	YES		
FY96	INTERMEC	OPTION	ISSAA	DEC 95	MAR 96	128	22	YES		
FY97	INTERMEC	OPTION	ISSAA	DEC 96	MAR 97	130	22	YES		

D. REMARKS

*Portable Data Collection Device (PDCD) - Unit Cost \$1,668.00.

**Barcode Printer (BCP) - Unit cost \$1,880.00.

***Comm Devices & Modems - Unit Cost \$500.00.

****Radio Frequency Portable Data Collection Device (RFPCD) Network - Unit Cost \$22,000.00.

INTERMEC, Seattle, WA

P-1 SHOPPING LIST

ITEM NO. 87

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

September 1994

C. P-1 ITEM NOMENCLATURE
LOGTECH (BZ8889)

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM/FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQD	IF YES, WHEN AVAILABLE
Automated Manifest System										
FY95	INTERMEC	OPTION	ISSAA	MAY 95	AUG 95	100	5	YES		
FY96	INTERMEC	OPTION	ISSAA	DEC 96	MAR 96	128	5	YES		
FY97	INTERMEC	OPTION	ISSAA	DEC 95	MAR 97	130	5	YES		

D. REMARKS

*Portable Data Collection Device (PDCD) - Unit Cost \$1,668.00.

**Barcode Printer (BCP) - Unit cost \$1,880.00.

***Comm Devices & Modems - Unit Cost \$500.00.

****Radio Frequency Portable Data Collection Device (RFPDCD) Network - Unit Cost \$22,000.00.

*****Automated Manifest System-Unit Cost \$5000.00

INTERMEC, Seattle, WA

P-1 SHOPPING LIST

ITEM NO. 87

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE ISYSCON EQUIPMENT						(BX0007)
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00 / 01
QUANTITY								
COST(IN MILLIONS)	.1	0.0	13.2	10.2	11.8	11.8	5.0 / 0.0	
<p>DESCRIPTION:</p> <p>Integrated System Control (ISYSCON) will provide an automated method for managing the tactical communication network, establish an interface with each technical control facility and other non-signal management in the ATCS architecture, and enable automation assisted configuration and management of a dynamic battlefield. The major functions of ISYSCON are network planning, signal command and control, spectrum management, wide area network management and COMSEC management.</p> <p>JUSTIFICATION:</p> <p>The need for an ISYSCON was reinforced during Operation Desert Storm. The current system control (AN/MSC 31 or AN/MSC-32) provides a manual and labor intensive capability which is not adequate to perform timely and effective synchronization of communication systems to meet C3I requirements of automated command and control systems. FY 96 dollars fund the production efforts associated with the ISYSCON program. ISYSCON production includes system enhancements to already fielded Mobile Subscriber Equipment (MSE) Network Management Tool (NMT) hardware. Modification kits consists of NDI hardware.</p> <p>FY 97 funds continues the production efforts for the ISYSCON program.</p>								
(IDENT CODE B)								
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 88 PAGE NO 1 OF 5			UNCLASSIFIED		Page 1 of 5 Pages EXHIBIT P-40	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-4)		A. APPROPRIATION NO. OPA2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME ISYCON EQUIPMENT				C. MANUF Numerous See P5a		D. DATE February 1995	
WEAPONS SYSTEM COST ELEMENTS		IDENT CODE	UNIT COST	FY84 QTY	TOTAL COST	UNIT COST	FY85 QTY	TOTAL COST	UNIT COST	FY86 QTY	TOTAL COST
1. RETRO FIT KITS GOVT/CONT FURNISHED EQUIPMENT		B			58	451,270	22	9,928	509,820	11	5,608
2. GOVT/CONT ENGINEERING								1,800			2,594
3. ENGINEERING CHANGE PROP								30			473
3. FIELDING / NET								1,056			1,023
4. SPARES								364			530
Unit costs are an average of the ISYCON (v)1 and (v)2				0	58		22	13,178		11	10,228

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE	
Other Procurement, Army 2 - Communications and Electronics Equipment					ISYSCON EQUIPMENT					February 1996	
LINE ITEM/FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
1. RETRO FIT KITS FY 1996	TBS	TBS	CECOM	Apr 96	Oct 96	22	451,270	NO			
FY 1997	TBS	TBS	CECOM	Dec 96	Jun 97	11	508,820	NO			

D. REMARKS:

The ISYSCON program has recently been restructured. The PM is currently pursuing type classification - standard to accelerate the production of ISYSCON in order to meet the early fielding requirement imposed by Signal Center and DCSOPS. Contract data is undefined at this time and will be definitized when type classification is approved (FY 96). Unit costs are an average of the ISYSCON (v)1 and (v)2

UNCLASSIFIED		CODE "B" ITEM DESCRIPTION		DATE February 1995		REPORT CONT. SYMBOL DD-COMP() 592	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment				P-1 ITEM NOMENCLATURE ISYSCON EQUIPMENT (BX00007)			
CURRENT DEVELOPMENT AND TEST STATUS				SCHEDULE DATE			
CURRENT		LAST REPORTED		REASON FOR DELAY			
JAN 96		OCT 95		Acceleration is due to the integration of the NMT and ISYSCON programs under the Network Management Improvement Plan (NMIP).			
MAR 96		SEP 96					
PLAN/ACTUAL DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS							
ESTIMATED DATE OF APPROVAL FOR SERVICE USE APR 96							
EQUIPMENT ITEM(S) TO BE REPLACED							
NMT, CSCE, AN/MSC-31 and 32							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED							
DEVELOPMENT CONTRACT INFORMATION				RD&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
GTE	RALEIGH-DURHAM, NC		28344	19206	13368	15232	27216
TOTAL RD&E FUNDING			28344	19206	13368	15232	27216
REMARKS DEVELOPMENT AND OPERATIONAL TESTS ARE BEING CONDUCTED ON PHASE 1 and 2 SOFTWARE							
DD Form 2443, JUL 88				UNCLASSIFIED		Page 4 of 5 Pages EXHIBIT P-19	

[illegible]

BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment				P-1 ITEM NOMENCLATURE MANEUVER CONTROL SYSTEM (MCS) (BA9320)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
QUANTITY			152	165	190	193	351
COST (In Millions)	0	0	13.9	15.9	16.9	19.9	24.9
<p>DESCRIPTION:</p> <p>The Maneuver Control System (MCS) is an automated tactical command and control (C2) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operations staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including preplanned system improvements to insure increasing C2 capabilities and infusion of current technology while, in the interim, providing an essential core capability.</p> <p>JUSTIFICATION:</p> <p>MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then allow the commander to make decisions, issue orders, allocate resources, and fight the battle.</p> <p>The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advancements in technology and achieves Life Cycle Cost savings due to commonality of support.</p> <p>FY 96 funding of \$13.8M will be required to proceed toward a Low Rate Initial Production (LRIP) decision to procure CHS-2 hardware hardware to be used for subsequent testing and the MCS Initial Operational Test and Evaluation (IOT&E) which supports Force XXI.</p> <p>FY 97 funding of \$15.9M will be required to purchase and field the 82nd Airborne.</p>							
IDENTIFICATION CODE B							
DD Form 2454, JUN 86				Page 1 of 6 Pages			
ITEM NO. 89				PAGE NO. EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriations/Budget Activity Other Procurement, Army 2, Communications Electronics Equipment		B. WEAPON MANEUVER CONTROL SYSTEM (MCS) (BA3330)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P-5A		D. DATE February 1995	
Weapon System Cost Elements	Ident. Code	FY94		FY95		FY96		FY97	
		Unit Cost	(Qty) Total Cost	Unit Cost	(Qty) Total Cost	Unit Cost	(Qty) Total Cost	Unit Cost	(Qty) Total Cost
1. HARDWARE	B								
a. CHS-2 COMPUTER						\$91	(85) \$7,713	\$95	(80) \$7,598
Peripherals									
b. LARGE SCREEN DISPLAY (LSD)						\$15	(13) \$197	\$17	(18) \$299
2. PROJECT MANAGEMENT ADMIN.	B						\$1,205		\$1,241
3. FIELDING	B								
a. NEW EQUIPMENT TRAINING TEAM (NETT)							\$2,566		\$2,605
b. 1ST DESTINATION TRANSPORTATION							\$354		\$411
c. TOTAL PACK FIELD (TPF)							\$471		\$563
4. INTERIM CONTRACTOR SUPPORT (ICS)	B						\$391		\$1,612
5. OTHER CHS 2 Support Costs Includes: MCS Data and Integration, Common ATCCS Logistics & Maintenance Req. Integration & Assembly for SICPS	B						\$911		\$1,564
TOTAL							\$13,808		\$15,893

NOTE: QUANTITIES HAVE BEEN ADJUSTED TO REFLECT CURRENT PROGRAM STRUCTURE

BUDGET PROCUREMENT HISTORY AND PLANNING (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY - Other Procurement, Army 2, Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE MANEUVER CONTROL SYSTEM (MCS) (BA9320)							
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES, WHEN AVAIL	
FY94	N/A										
FY95	N/A										
FY96											
CHS-2 COMPUTER Peripherals LSD	TBS	C/Option	CECOM	Mar 96	Jul 96	85	\$90,743	Yes			
	TBS	C/Option	CECOM	Mar 96	Jul 96	13	\$15,136	Yes			
FY97											
CHS-2 COMPUTER Peripherals LSD	TBS	C/Option	CECOM	Jul 97	Nov 97	80	\$94,975	Yes			
	TBS	C/Option	CECOM	Jul 97	Nov 97	18	\$16,611	Yes			
D. REMARKS											
- This is not a Multi-year procurement. - Under current planning, delivery orders for MCS CHS hardware will be placed on the CHS-2 contract in FY96 and FY97.											

FY-96 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE		DATE			
ITEM / MANUFACTURER / PROCUREMENT YEAR		MANEUVER CONTROL SYSTEM (MCS) (049320)		February 1995			
SERV	PROC QTY	ACQPT PRIOR TO 1 OCT 1993	BAL DUE AS OF 1 OCT 1993	FISCAL YEAR 1994		FISCAL YEAR 1995	
				CALENDAR YEAR 1994		CALENDAR YEAR 1995	
				JAN	FEB	MAR	APR
TCU UPGRADES CHS-1/MILTOPE CORP/FY-93	279		279				
CHS-2/TBS/FY-96	96		96				
CHS-2/TBS/FY-97	90		90				
L8D/TBS/FY-96	13		13				
L8D/TBS/FY-97	18		18				
TOTAL				475	0	475	0
MANUFACTURER'S NAME AND LOCATION		REACHED		REMARKS			
MILTOPE CORP, MONTGOMERY, AL		D		TCU Upgrades for ATCSs.			
TBS		N/A		TCU Common Hardware has no breaks in production. The TCU, HCU are commercial items being procured on the CHS contracts. The quantities shown do not represent total production the output.			
P-1 SHOPPING LIST		ITEM NO. 89		Page 4 of 8 Pages			
Previous editions are obsolete.		P-1 SHOPPING LIST		Exhibit P-31 Production Schedule			

FY-96 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE		DATE	
ITEM / MANUFACTURER / PROCUREMENT YEAR		MANUFACTURER CONTROL SYSTEM (MCS) (SAL129)		February 1995	
		FISCAL YEAR 1997		FISCAL YEAR 1998	
		CALENDAR YEAR 1997		CALENDAR YEAR 1998	
		JAN		JAN	
		FEB		FEB	
		MAR		MAR	
		APR		APR	
		MAY		MAY	
		JUN		JUN	
		JUL		JUL	
		AUG		AUG	
		SEP		SEP	
		OCT		OCT	
		NOV		NOV	
		DEC		DEC	
		TOTAL		TOTAL	
TCU UPGRADES CHS-1/MLT OFE CORP/FY-93					
CHS-2/FY-96					
CHS-2/FY-97					
LMD/FY-96					
LMD/FY-97					
TOTAL					
REMARKS					

UNCLASSIFIED				REPORT CONTROL SYMBOL		
CODE "B" ITEM DESCRIPTION		DATE	DD-COMP(AR)1092			
APPROPRIATION	Other Procurement, Army 2	P-1 ITEM NOMENCLATURE				
ACTIVITY - Communications and Electronics		MANEUVER CONTROL SYSTEM (MCS) (BA9320)				
1. CURRENT DEVELOPMENT AND TEST STATUS						
Equipment		Schedule Date				
Planned		Current	Last Reported	Reason For Delay		
A. LIMITED USER TEST (LUT)		NOV 95	NONE			
B. LOW RATE INITIAL PROD (LRIP) Decision/Buy		MAR 96	NONE			
C. V 12.01 IOT&E		NOV 96	OCT 95	Continued delays in CHS-2 contract award		
D. ASARC		JUN 97	MAR 96	Continued delays in CHS-2 contract award		
E. MCS III DAB		JUN 97	APR 96	Continued delays in CHS-2 contract award		
F. FUE/IOC		JUN 98	APR 97	Continued delays in CHS-2 contract award		
MCS MILESTONE III DAB - JUN 97						
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE						
3. EQUIPMENT ITEM(S) TO BE SUPPLEMENTED						
NDI (AN/UUYQ-43 (V1) AND (V2))						
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED						
PART OF ATCCS COMMON HARDWARE PROGRAM, THE NEXT GENERATION OF COMPUTERS WILL INCORPORATE ADVANCEMENTS IN TECHNOLOGY AND INCLUDE SAVINGS IN LIFE CYCLE COST DUE TO COMMONALITY OF SUPPORT.						
5. DEVELOPMENT CONTRACT INFORMATION PE 0203740A/D484						
RDT&E FUNDING PROFILE (\$ IN MILLIONS)						
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THROUGH PRIOR YEAR (4) FY-94	CURRENT YEAR (5) FY-95	BUDGET YEAR (6) FY-96	BEYOND BUDGET YEAR FY2001
LORAL C3 SYSTEM	COLORADO SPRINGS, CO	S/W DEV	\$30.8	\$0.0	\$0.0	\$0.0
MILTOPE CORPORATION	MONTGOMERY, AL	CHS-1	\$7.4	\$0.5	\$0.0	\$0.0
TBS	TBS	CHS-2	\$0.0	\$0.0	\$1.8	\$1.9
BLOCK IV (TBS)	TBS	S/W DEV & SZ&I	\$0.0	\$0.0	\$4.0	\$55.7
CSC/MITRE/TELOS	EATONTOWN, NJ	S/W DEV	\$18.1	\$10.4	\$7.0	\$3.0
OTHER			\$212.0	\$6.1	\$6.3	\$24.7
TOTAL RDT&E FUNDING			\$268.3	\$17.0	\$19.1	\$85.3
6. REMARKS:						
DD FORM 2443, JUN 86						
P-1 SHOPPING LIST						
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UNCLASSIFIED						

BUDGET ITEM JUSTIFICATION SHEET

DATE
February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (in Millions)	\$ 31.6	\$ 21.7	\$ 23.5	\$ 24.0	\$ 24.2	\$ 24.5	\$ 25.9	\$ 26.8

DESCRIPTION:

STAMIS Tactical Computers (STACOMP) are a group of Commercial-Off-the-Shelf (COTS)/Non-Developmental Item (NDI) computer systems. STACOMP systems support the Standard Army Management Information System (STAMIS) tactical computer requirements for the US Army. STACOMP systems are transportable and user friendly. These systems are used by soldiers on the battlefield to support CSS missions at all levels. STACOMP systems support the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Standard Property Book System-Redesign (SPBS-R), the Department of the Army Movements Management System-Redesign (DAMMS-R), the Unit Level Logistics System (ULLS) and Standard Installation Division Personnel System (SIDPERS).

JUSTIFICATION:

FY96 will procure COTS/NDI microcomputers for the logistic STAMIS SARSS, SAAS, SAMS, SPBS-R, DAMMS-R and ULLS; and STAMIS support systems. FY97 will procure COTS/NDI microcomputers for SARSS, SAAS, SAMS, DAMMS-R, ULLS and STAMIS support systems.

(Identification Code A)

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION NO.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUF.		D. DATE	
OPA 2 - Communications and Electronics Equipment		STAMIS SYSTEMS (W008000)		Numerous See 5a.		February 1995	
IDENT. CODE	FY94	FY95		FY96		FY97	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
A							
		1,488		2,000		3,477	
		3,385		1,753		1,889	
		8,946		600		5,233	
		2,830		600		3,674	
		5,925		1,000		3,683	
		235		600		5,315	
		5,016		14,890		0	
		2,705		0		0	
		1,092		250		194	
TOTAL		31,622		21,693		23,465	
NDI Microcomputers for:							
SAAS							
SPBS-R							
ULLS							
DAMMS-R							
SARSS							
SAMS							
SIDPERS							
CAISI							
STAMIS SUPPORT SYSTEMS							
*VAR - Configurations vary by user requirements.							
TOTAL							

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

February 1995

G. P-1 ITEM NOMENCLATURE

STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM/FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
NDI MICROCOMPUTER FOR:										
SABSS										
FY94	VAR*	C/FP	VAR*	APR 94	JUL 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	MAR 95	JUN 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
FY97	VAR*	C/FP	VAR*	DEC 96	MAR 97	VAR**	VAR**	YES		
SAMS										
FY94	VAR*	C/FP	VAR*	AUG 94	NOV 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	MAR 95	JUN 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
FY97	VAR*	C/FP	VAR*	DEC 96	MAR 97	VAR**	VAR**	YES		
SIDPERS										
FY94	VAR*	C/FP	VAR*	JUN 95	SEP 95	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	JUN 95	SEP 95	VAR**	VAR**	YES		
STAMIS SUPPORT SYSTEMS										
FY94	VAR	C/FP	VAR*	JUN 94	SEP 94	VAR**	VAR**	YES		
FY95	VAR	C/FP	VAR*	FEB 95	MAY 95	VAR**	VAR**	YES		
FY96	VAR	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
FY97	VAR	C/FP	VAR*	DEC 96	DEC 96	VAR**	VAR**	YES		

D. REMARKS

*Standard Requirements Type Contracts will be used to procure these NDI microcomputers, such as Small Multituser Computer (SMC), Lapheld II, STAMIS Computer Contract (SCC), etc.

**Configurations vary by user requirement.

*Contractors: Electronic Data Systems (EDS), Plano, TX; AT&T, Greensboro, NC; Sears Business Center, Vienna, VA; Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA.

P-1 SHOPPING LIST

ITEM NO. 90

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Exhibit P-5a

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1998

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)

LINE ITEM/FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQD	IF YES, WHEN AVAILABLE
NDI MICROCOMPUTER FOR:										
SAAS										
FY94	VAR*	C/FP	VAR*	APR 94	JUL 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	MAR 95	JUN 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	AUG 95	NOV 95	VAR**	VAR**	YES		
FY97	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
				DEC 96	MAR 97					
SPBS-R										
FY94	VAR*	C/FP	VAR*	APR 94	JUL 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	APR 95	JUL 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
ULLS										
FY94	VAR*	C/FP	VAR*	JUN 94	SEP 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	MAY 95	AUG 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
FY97	VAR*	C/FP	VAR*	DEC 96	MAR 97	VAR**	VAR**	YES		
CAISI										
FY94	VAR*	C/FP	VAR*	JUN 94	SEP 94	VAR**	VAR**	YES		
DAMMS-R										
FY94	VAR*	C/FP	VAR*	MAY 94	AUG 94	VAR**	VAR**	YES		
FY95	VAR*	C/FP	VAR*	MAY 95	AUG 95	VAR**	VAR**	YES		
FY96	VAR*	C/FP	VAR*	DEC 95	MAR 96	VAR**	VAR**	YES		
FY97	VAR*	C/FP	VAR*	DEC 96	MAR 97	VAR**	VAR**	YES		

D. REMARKS

*Standard Requirements Type Contracts will be used to procure these NDI microcomputers, such as Small Multiuser Computer (SMC), Lapheld II, STAMIS Computer Contract (SCC), etc.
 **Configurations vary by user requirement.

*Contractors: Electronic Data Systems (EDS), Plano, TX; AT&T, Greensboro, NC; Sears Business Center, Vienna, VA; Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA.

P-1 SHOPPING LIST

ITEM NO.

90

UNCLASSIFIED										DATE FEBRUARY 1996	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE										DATE FEBRUARY 1996	
STANDARDIZED INTEGRATED CMD POST SYSTEM (SICPS)										(BZ9962)	
Other Procurement: Army 2											
Communications and Electronics Equipment											
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
	0	0	0	0	0	0	0	0			
COST (IN MILLIONS)	0.0	9.5	28.9	27.4	27.6	24.8	19.9	14.9			
<p>DESCRIPTION: This program includes the procurement of six command post variants, each designed to accommodate the various Battlefield Functional Areas of the Army Tactical Command and Control System (ATCCS). These include the Maneuver Control System (MCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Combat Service Support Control System (CSSCS), the Forward Area Air Defense Command and Control System (FAADC2), the Extended Air Defense Command and Control System (EAD), and the Integrated Meteorological System (IMETS). The six command post variants are:</p> <p>(1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, mapboards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.</p> <p>(2) A Rigid Wall Shelter (RWS) CP mounted on the High Mobility Multipurpose Wheel Vehicle (HMMWV) Shelter Carrier consisting on-board generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment mounts, equipment racks to accommodate two ATCCS workstations, an operator seat, a vehicular intercom system, and a 10 meter Quick Erect Antenna Mast (QEAM).</p> <p>(3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ATCCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts, stowage provisions, an updated Auxiliary Power Unit (APU), an updated vehicular intercom system, a power distribution system, a 10 meter QEAM, and signal/data wiring module. The converted M577 has been designated the M1068 Track CP.</p> <p>(4) Installation Kits for the 5-Ton Expandable Van (E-Van) consisting of racks for up to six ATCCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, mapboards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring, and signal/data wiring.</p> <p>(5) Installation Kits for the Soft-Top HMMWV consisting of equipment racks for up to two ATCCS workstations, communications patch module, antenna mounts, operator work surface, data patching module, and a power control module, white canvas liners, blackout curtains and a 10 meter QEAM.</p> <p>(6) Installation Kits for the International Standard Organization (ISO) Shelter. This Large SICP Shelter (LSS) consists of equipment racks for up to six ATCCS workstations, communications racks, signal entry panel and antenna mounts. The LSS is currently in development. The first procurement is scheduled for FY01.</p> <p>JUSTIFICATIONS: The Standard Integrated Command Post System is essential to the Army's Force XXI. It provides the mobility for ATCCS which is a major part of the Army Chief of Staff's effort to digitize the battlefield. Procurement of each of the above variants required to support the fielding of the noted ATCCS nodes with the Army's Common Hardware/Software Command and Control equipment.</p> <p>NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.</p>											
DD Form 2454, Jul 88											
UNCLASSIFIED											
P-1 SHOPPING LIST											
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[illegible]

UNCLASSIFIED										DATE FEB 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMPARI 1092		P-1 ITEM NOMENCLATURE									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		STANDARDIZED INTEGRATED CMD POST SYSTEM (SICPS) Tent Command Post									
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY		0	0	0	621	172	232	147	121		
COST (IN MILLIONS)		0.0	0.2	0.2	3.1	1.0	1.3	1.0	0.8		
<p>DESCRIPTION: This variant is a Tent Command Post (CP) consisting of a light-weight aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, map boards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.</p> <p>JUSTIFICATION: Procurement of the Tent Command Post is required for fielding with the Rigid Wall Shelter, M1068, and Soft-Top HMMWV Command Posts to all the Battlefield Functional Area projects (the Advanced Field Artillery Tactical Data System, the Forward Area Air Defense Command and Control System, the Maneuver Control System, the Combat Service Support Control System, the Integrated Meteorological System as well as stand alone fieldings to the Combat Service Support Control System. These systems will be fielded to all Army units.</p> <p>NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.</p> <p>NOTE: Units Fielded through FY97: CSSCS-III Corps, 2nd AD, 1st CD, III Corps, 82nd Airborne, 10th MTN Div, 2nd ACR, I Corps, and 3rd ACR FAADC2-101st Airborne, 24th ID, 10th MTN Div, 82nd Airborne, XVIII Corps, 1st CD, 2nd AD, 3rd ACR, 1st AD, 3rd Mech AFATDS-2nd AD, 82nd Airborne, 10th MTN Div, 7th ID, 101st Airborne, 24th ID MCS-2nd AD IMETS-Various FORSCOM, Europe, and Korea units</p>											
UNCLASSIFIED		DD Form 2454, Jul 88				P-1 SHOPPING LIST				EXHIBIT P-40	
		ITEM NO 91				PAGE 3 of 31					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

Appropriation/Budget Activity:

Per Procurement Army 2 Communications and Electronics Equipment

C: P-1 Item Nomenclature:

Standardized Integrated Command Post System (SICPS)

Tent Command Post

A. DATE

FEBRUARY 1995

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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COST ELEMENT/**CONTRACTOR**

AND LOCATION

CONTRACTOR

METHOD & TYPE

CONTRA

BY _____

AWARD

DATE _____

DATES OF

FIRST

DELIVERY

QUANTITY

--	--

AVAILABLE

NOW

REV

REQ'D

NAME _____

AVAILABLE

--	--

FY1897

Camel, Lafollette

Tennessee

ATCOM

Feb 97

Aug 97

621

YES

NO

D. REMARKS:

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE FEB 1995	
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE STANDARDIZED INTEGRATED CMD POST SYSTEM (Rigid Wall Shelter (SICPS) (BZ9962)											
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
QUANTITY		0	0	124	0	44	19	10	23				
COST (IN MILLIONS)		0.0	2.8	17.2	3.2	6.8	3.5	2.4	4.3				
<p>DESCRIPTION: This variant consists of a Rigid Wall Shelter (RWS) CP mounted on the High Mobility Multipurpose Wheeled Vehicle (HMMWV) Shelter Carrier. The shelter is integrated with an on-board generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, equipment racks to accommodate two ATCCS workstations, an operator seat, a vehicular intercom system, and a 10 meter Quick Erect Antenna Mast (QEAM).</p> <p>JUSTIFICATION: Procurement of the Rigid Wall Shelter is required for fielding to all of the Battlefield Functional Areas of the Army Tactical Command and Control System (Advanced Field Artillery Tactical Data System, Forward Area Air Defense Command and Control System, Maneuver Control System, the Integrated Meteorological System, Extended Air Defense Command and Control System, and the Combat Service Support and Control System). These systems will be fielded to all Army units.</p> <p>NOTE: UNITS FIELDED THROUGH FY97: IMETS-Various FORSCOM, Europe and Korea Units CSSCS-2nd AD, 1st CD, XVIII Corps, 24th ID, III Corps, 10th MTN Div, 2nd ACR, 3rd ACR, 101st Airborne AFATDS-2nd AD, 10th MTN Div, 7th ID, 24th ID, XVIII Corps, 101st Airborne, 82nd Airborne FAADC2-101st Airborne, 10th MTN Div, 2nd ID, 82nd Airborne, 24th ID, XVIII Corps, 1st CD, 3rd ACR, 1st AD, 3rd Mech, 2nd AD EAD-III Corps, XVIII Corps, VII Corps, I Corps MCS-2nd AD</p> <p>NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.</p>													
UNCLASSIFIED		DD Form 2464, Jul 88								P-1 SHOPPING LIST			EXHIBIT P-40
		ITEM NO 91								PAGE 8 of 31			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B: Appropriation/Budget Activity:

Other Procurement Army 2 Communications and Electronics Equipment

C: P-1 Item Nomenclature:

Standardized Integrated Command Post System (SICPS)

Rigid Wall Shelter

STUDENT IDENTIFICATION NUMBER	DATE OF BIRTH	HIGHEST ELEMENTARY SCHOOL YEAR
[REDACTED]	[REDACTED]	[REDACTED]

**CONTRACTOR
AND LOCATION**

CONTRACTOR	METHOD & TYPE
------------	---------------

CONTRACTED		
BY		

	AWARD	DATE
--	-------	------

DATES OF	
FIRST	DELIVERY

QUANTITY	
----------	--

UNIT	COST
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000

SPECS	
AVAILABLE	
NOW	

SPEC	IF YES
REV	WHEN
REQ'D	AVAILABILITY

YES	WHEN	AVAILABLE
-----	------	-----------

FY1996

TBS

C/FP

ATCOM

Feb 98

Nov 98

12.

117,00

NO

SEP 85	SEI
--------	-----

D. REMARKS:

251 Type Classified Limited Procurement Rigid Wall Shelters were purchased in FY91 and FY92.

The above contract is for a product improved version of this shelter which will be type classified

in Feb 98.

CODE "B" ITEM DESCRIPTION

DATE: FEB 1995

DD FORM 1092

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NAME

Other Procurement: Army 2
Communications and Electronics Equipment

Standardized Integrated Command Post System (SICPS)
Rigid Wall Shelter

(BZ9962)

1. CURRENT DEVELOPMENT AND TEST STATUS

SCHEDULE DATE		REASON FOR DELAY	
CURRENT	LAST REPORTED		
Sep-94	Sep-94		
Sep-94	Sep-94		
May-95	Sep-96	Revised Test Strategy	
Sep-95	Dec-94	Revised Test Strategy	

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Feb 96

3. EQUIPMENT ITEM(S) TO BE REPLACED:

Gaining Unit's High Mobility Multipurpose Wheel Vehicle (HMMWV).

4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:

Provides Heavy HMMWV and shelter for facilities for Tactical Computers and Software in the Army Tactical Command and Control System.

5. DEVELOPMENT CONTRACT INFORMATION:

PE64804/D429

RDT&E FUNDING PROFILE (\$ IN MILLIONS)

CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PRIOR YEAR FY94 (4)	CURRENT YEAR FY95 (5)	BUDGET YEAR FY96 (6)	BEYOND BUDGET YEAR FY97-01 (7)
NORDAM	TULSA, OKLA.	RIGID WALL SHELTER	\$4.00	\$0.00	\$0.00	\$0.00
BRUNSWICK CORP.	MARION, VA.	RIGID WALL SHELTER	\$4.50	\$0.00	\$0.00	\$0.00
TOTAL RDT&E FUNDING			\$8.50	\$0.00	\$0.00	\$0.00

6. REMARKS:

The RWS was Type Classified (TC) Limited Procurement Urgent (LPU) in Aug 91. 251 TC-LPU shelters were purchased in FY91 and FY92. The TC-LPU RWS went through Operational Test in Jul-Sep 94. A product improved version of the RWS is in development and will be available for Operational Test in May 95. Type Classification of the product improved shelter is planned for Feb 96. RDT&E for the Standardized Integrated Command Post System was controlled by ATCOM through FY94.

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P-1 SHOPPING LIST

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EXHIBIT P-19

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 2
Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

STANDARDIZED INTEGRATED CMD POST SYSTEM
(SICPS) (BZ9962)
M1068 Track Conversion Kit

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
	0	0	0	59	108	76	84	14
COST (IN MILLIONS)	0.0	2.6	2.1	8.1	14.8	9.9	11.2	2.7

DESCRIPTION: This variant is a conversion kit for the M577 Track Vehicle consisting of equipment racks for two ATCCS work stations, power and signal panels, tent interface panel, operator seats, stowage provisions, an updated Auxiliary Power Unit (APU), an updated vehicular intercom system, antenna mounts, a 10 meter Quick Erect Antenna Mast (QEAM), a power distribution panel, and signal/data wiring. The converted M577 has been designated the M1068 Track CP.

JUSTIFICATION: Procurement of the M1068 Track Conversion Kit is required for fielding to four of the Battlefield Functional Areas of the Army Tactical Command and Control System (Advanced Field Artillery Tactical Data System, Forward Area Air Defense Command and Control System, Maneuver Control System, and Combat Service Support Control System). The M1068 will be fielded to all heavy divisions and Corps in the Army as an associated item of the noted systems.

NOTE: Units Fielded through FY97:

AFATDS-2nd AD, 24th ID
FAADC2-2nd ID, 1st CD, 3rd ACR, 1st AD, 2nd AD, 3rd Mech
CSSCS-2nd AD, 1st CD
MCS-2nd AD

NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.

UNCLASSIFIED

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P-1 SHOPPING LIST

ITEM NO 91

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EXHIBIT P-40

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B: Appropriation/Budget Activity:

Other Procurement Army 2 Communications and Electronics Equipment

C: P-1 Item Nomenclature:

Standardized Integrated Command Post System

M1068 Track Conversion Kit

A. DATE

FEBRUARY 1995

	COST ELEMENT
	FISCAL YEAR

CONTRACTOR AND LOCATION	DATE OF COMPLETION	PERCENTAGE COMPLETE	REMARKS

CONTRACTOR	METHOD & TYPE

CONTRACT NO.	BY
--------------	----

AWARD	DATE
-------	------

DATE	DATE OF FIRST DELIVERY
10/1/2010	10/1/2010

QUANTITY

UNIT

SPECS AVAILABLE

SPEC
REV

IF YES	WHEN	AVAILABLE
--------	------	-----------

FY1997

TBS

C/FP

TACOM

Feb 97

Nov 97

59

\$112,000

YES

NO

D. REMARKS:

UNCLASSIFIED		REPORT CONTROL SYMBOL													
CODE "B" ITEM DESCRIPTION		DD-COMP/ARI1082													
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		DATE: SEPTEMBER 1994 P-1 ITEM NOMENCLATURE Standardized Integrated Command Post System (SICPS) M1068 Track Conversion Kit (BZ9962)													
1. CURRENT DEVELOPMENT AND TEST STATUS															
Dev Test & Eval (DT&E) Initial Oper Test & Eval (IOT&E) Avail Date of Tech Data Pkg (TDP) or Performance Specifications		SCHEDULE DATE <table border="1"> <thead> <tr> <th>CURRENT</th> <th>LAST REPORTED</th> <th>REASON FOR DELAY</th> </tr> </thead> <tbody> <tr> <td>Mar 92</td> <td>Mar 92</td> <td></td> </tr> <tr> <td>Mar 94</td> <td>Mar 94</td> <td></td> </tr> <tr> <td>Jun 94</td> <td>Jun 94</td> <td></td> </tr> </tbody> </table>		CURRENT	LAST REPORTED	REASON FOR DELAY	Mar 92	Mar 92		Mar 94	Mar 94		Jun 94	Jun 94	
CURRENT	LAST REPORTED	REASON FOR DELAY													
Mar 92	Mar 92														
Mar 94	Mar 94														
Jun 94	Jun 94														
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Mar 95															
3. EQUIPMENT ITEM(S) TO BE REPLACED: M577															
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Provides facilities for Tactical Computers and Software in the Army Tactical Command and Control System.															
5. DEVELOPMENT CONTRACT INFORMATION: PE64804/D429 RDT&E FUNDING PROFILE (\$ IN MILLIONS)															
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	<table border="1"> <thead> <tr> <th>THROUGH PRIOR YEAR FY94 (4)</th> <th>CURRENT YEAR FY95 (5)</th> <th>BUDGET YEAR FY96 (6)</th> <th>BEYOND BUDGET YEAR FY97-01 (7)</th> </tr> </thead> <tbody> <tr> <td>\$2.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>\$2.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> </tr> </tbody> </table>	THROUGH PRIOR YEAR FY94 (4)	CURRENT YEAR FY95 (5)	BUDGET YEAR FY96 (6)	BEYOND BUDGET YEAR FY97-01 (7)	\$2.00	\$0.00	\$0.00	\$0.00	\$2.00	\$0.00	\$0.00	\$0.00
THROUGH PRIOR YEAR FY94 (4)	CURRENT YEAR FY95 (5)	BUDGET YEAR FY96 (6)	BEYOND BUDGET YEAR FY97-01 (7)												
\$2.00	\$0.00	\$0.00	\$0.00												
\$2.00	\$0.00	\$0.00	\$0.00												
FMC CORP.	SAN JOSE, CA.	M1068 KITS													
TOTAL RDT&E FUNDING															
6. REMARKS: The M1068 was Type Classified (TC) Limited Procurement Urgent (LPU) in Jul 92 and 330 kits were purchased in FY92 and FY93. TC Standard is planned for March 95. RDT&E funding for the Standardized Integrated Command Post System was controlled by ATCOM through FY94.															
DD Form 2443, JUL 88		EXHIBIT P-19													
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ITEM NO 91															

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET													
P-1 ITEM NOMENCLATURE STANDARDIZED INTEGRATED CMD POST SYSTEM 5-Ton E Van Installation Kit (SICPS) (BZ9982)													
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment													
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01					
QUANTITY	0	17	15	28	12	27	15	7					
COST (IN MILLIONS)	0.0	3.0	3.6	6.2	3.1	6.3	4.0	2.5					
DESCRIPTION: This variant consists of an installation kit (IK) for the 5-ton Expandable Van (E-Van) consisting of racks for up to six ATCCS work stations, centralized communications rack, communications patch panel, signal entry panel, mapboards, an updated power distribution system, vehicular intercom system, a 10 meter Quick Erect Antenna Mast, and signal/data wiring.													
JUSTIFICATION: Procurement of the 5-Ton E-Van (IK) is required for fielding to three of the five Battlefield Functional Areas of the Army Tactical Command and Control System (Advanced Field Artillery Tactical Data System, Maneuver Control System and the Combat Service Support Control System). The 5-Ton E-Van kits will be fielded to all Army units of the noted Battlefield Functional Areas.													
NOTE: Units Fielded through FY97: CSSCS-2nd AD, XVIII Airborne Corps, 24th ID, 1st CD, 2nd ACR, and the 3rd ACR AFATDS-10th MTN Div, 2nd AD MCS-2nd AD													
NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.													
P-1 SHOPPING LIST													
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UNCLASSIFIED													
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EXHIBIT P-40													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B: Appropriation/Budget Activity: Other Procurement Army 2 Communications and Electronics Equipment		C: P-1 Item Nomenclature: Standardized Integrated Command Post System 5-Ton E-Van Installation Kit		A. DATE		FEBRUARY 1995													
CONTRACTOR AND LOCATION		CONTRACT METHOD & TYPE		CONTRACTED BY		AWARD DATE		DATES OF FIRST DELIVERY		QUANTITY		UNIT COST		SPECS AVAILABLE NOW		SPEC REV REQ'D		IF YES WHEN AVAILABLE	
FY1995	LETTERKENNEY ARMY DEPOT	MIPR		CECOM		Aug 95	Apr 96	17	\$165,000	NO		YES	Jul 95						
FY1996	LETTERKENNEY ARMY DEPOT	MIPR		CECOM		Apr 96	Dec 96	15	\$174,000	NO		YES	Jul 95						
FY1997	LETTERKENNEY ARMY DEPOT	MIPR		CECOM		Jan 97	Sep 97	28	\$178,000	NO		YES	Jul 95						
D. REMARKS:																			
DD Form 2446-1, Jul 87																			
UNCLASSIFIED																			
P-1 Shopping List																			
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Page 21																			
of																			
31																			

FY96/97 BUDGET PRODUCTION SCHEDULE

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 2

STANDARDIZED INTEGRATED COMMUNITY POST SYSTEM (SICPS)

Communications and Electronics Equipment

5 Ton E-Van Installation Kit

(BZ9982)

[illegible]

REMARKS:

**FY95 PROCUREMENT IS AN
INITIAL ORDER**

P-1 SHOPPING LIST

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ITEM NO.

EXHIBIT P-21

FY96/97 BUDGET PRODUCTION SCHEDULE

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army 2

Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS)

5 Ton E-Van Installation Kit

(BZ9982)

[illegible]

REMARKS:

P-1 SHOPPING LIST

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ITEM NO

91

EXHIBIT P-21

1. CURRENT DEVELOPMENT AND TEST STATUS		
CURRENT	SCHEDULE DATE	
	LAST REPORTED	REASON FOR DELAY
Jun 94 Sep 94 Jul 95	Jun 94 Sep 94 Jul 95	

Dev Test & Eval (DT&E)
Initial Oper Test & Eval (IOT&E)
Avail Date of Tech Data Pkg (TDP)
or Performance Specifications

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Aug 95

3. EQUIPMENT ITEM(S) TO BE REPLACED: N/A

4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: N/A

5. DEVELOPMENT CONTRACT INFORMATION: PE64804/D429 (FY94 and Prior); PE65818/D323 (FY95)					
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PRIOR YEAR FY94 (4)	CURRENT YEAR FY95 (5)	RD&E FUNDING PROFILE (\$ IN MILLIONS) BUDGET YEAR FY96 (6) BEYOND BUDGET YEAR FY97-01 (7)
LETTERKENNEY ARMY DEPOT	CHAMBERSBURG, PA.	5-TON KIT	\$2.50	\$0.97	\$0.00
TOTAL RDT&E FUNDING			\$2.50	\$0.97	\$0.00

6. REMARKS: RDT&E funding for the Standardized Integrated Command Post System was controlled by ATCOM through FY94.
PM CHS controls RDT&E funding in FY95.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED								DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS) Soft Top HMMWV Installation Kit (BZ9962)									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY		0	16	114	123	28	62	12	39		
COST (IN MILLIONS)		0.0	0.9	5.8	6.7	1.9	3.7	1.3	2.8		

DESCRIPTION: This variant consists of an installation kit for the Soft-Top HMMWV consisting of racks for up to two ATCCS work stations, communications patch module, power control module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains, and the Quick Erect Antenna Mast (QEAM).

JUSTIFICATION: Procurement of the Soft-Top HMMWV Installation Kits is required for fielding to three of the five Battlefield Functional Areas of the Army Tactical Command and Control System (Advanced Field Artillery Tactical Data System, the Forward Area Air Defense Command and Control System, and the Maneuver Control System).

NOTE: Units fielded through FY97:

FAADC2-101st Airborne, 82nd Airborne
AFATDS-82nd Airborne, 10th MTN Div, 7th ID, 101st Airborne
MCS-2nd AD

NOTE: THRU FY94, FUNDS WERE APPROPRIATED UNDER SSN MX1010.

APPROPRIATION/BUDGET ACTIVITY Other Procurement: Category 2 Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE Standardized Integrated Command Post System (SICPS) Soft Top HMMWV Installation Kit (BZ9982)
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CURRENT DEVELOPMENT AND TEST STATUS		
CURRENT	LAST REPORTED	SCHEDULE DATE REASON FOR DELAY
Jun 94 Oct 94 Aug 95	Jun 94 Oct 94 Aug 95	

ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Apr-95
EQUIPMENT ITEM(S) TO BE REPLACED: Gaining Unit's High Mobility Multipurpose Wheel Vehicle (HMMWV).

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Provides Heavy HMMWV and kit for facilities for Tactical Computers and Software in the Army Tactical Command and Control System.

DEVELOPMENT CONTRACT INFORMATION:			RDT&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PRIOR YEAR FY94 (4)	CURRENT YEAR FY95 (5)	BUDGET YEAR FY96 (6)	BEYOND BUDGET YEAR FY97-01 (7)
BOYHANNA ARMY DEPOT	BOYHANNA, PA.		\$2.52	\$0.32	\$0.00	\$0.00
TOTAL RDT&E FUNDING			\$2.52	\$0.32	\$0.00	\$0.00

REMARKS:
RDT&E for the Soft Top HMMWV Installation Kit was funded with PEO Command and Control Systems Funds, not SICPS funds.

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UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE STANDARDIZED INTEGRATED CMD POST SYSTEM (SICPS) (BZ9962)									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 2 Communications and Electronics Equipment		Large SICPS Shelter (LSS)									
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY		0	0	0	0	0	0	0	3		
COST (IN MILLIONS)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8		
<p>DESCRIPTION: This variant consists of an International Standard Organization (ISO) Shelter mounted on a 5 Ton trailer. The shelter will be integrated with an on-board generator, power conversion/distribution system, environmental control unit, signal and power pass-through panels, equipment racks for eight ATCCS workstations, and collective chemical protection.</p> <p>JUSTIFICATION: Procurement of the LSS is required for fielding of the Army Tactical Command and Control System (ATCCS) to the Army. The LSS will be fielded at Corps level only.</p>											
UNCLASSIFIED		P-1 SHOPPING LIST								EXHIBIT P-40	
DD Form 2454, Jul 88		ITEM NO 91 PAGE 31 of 31									

REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE AUTOMATED DATA PROCESSING EQUIP (BD3000)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	46.8	83.4	132.8	122.3	117.9	101.2	117.9	118.7	

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information mission area (IMA) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty first century, it must leverage the use of automation technology to streamline its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent on use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical, and other sustaining base functions. Further justification is contained within the P-40 for specific systems comprising this BLIN.

(ID CODE A)

DD Form 2454	P-1 Shopping List Item No. 92	Page No. 1 OF 2	EXHIBIT P-40
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME AUTOMATED DATA PROCESSING EQUIP (BD3000)			C. MANUF Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		FY 94		FY 96		FY 96		FY 97			
		IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Summary:											
Installation Support Module (ISM) (BD3010)		A			1,546			2,904			2,563
Optical Digital Equip (ODE) (BD3956)		A			1,996						3,932
ASIMS (BD3970)		A			30						
Strategic Logistics Program (SLP) (BD7000)		A			6,417			23,254			23,632
Acquisition Information Management (AIM) (BE2000)		A						3,011			7,475
National Guard Reform Initiative (BE3800)		A									
Reserve HQ Automation (BE4000)		A			0			860			913
High Performance Computing (BE4152)		A			0			464			458
HQ Management Information Sys. (BE4161)		A			7,659			7,564			6,135
MACOM Automation Systems (BE4162)		A			9,100			14,995			17,795
Medical Automation Systems (BE4163)		A			1,153			1,614			1,808
Personnel Automation Systems (BE4164)		A			14,219			23,610			38,964
Logistics Automation Systems (BE4166)		A			49			4,983			5,038
Strategic Wargaming (BE4170)		A			3,150						
Sustaining Base Info Svc (SBIS) (BE4200)		A			1,500			119			23,608
TOTAL					46,819			83,378			132,751
											122,283

REPORTS CONTROL SYMBOL DD-COMPARI 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE OPTICAL DIGITAL EQUIP (BD3856)						
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
↑	2.0	2.9	2.6	3.9	3.5	3.2	2.5	2.5
<p>COST (In Millions)</p>								
<p>DESCRIPTION:</p> <p>This budget line supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping system. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army. Personnel Electronic Records Management System (PERMS) will provide an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS will convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selection/promotion boards.</p> <p>The Standard Army Computer Output Microform (STACOM) is a centrally managed program begun in FY 92 to achieve a \$40 - \$50 million cost avoidance through COM production of report data. To support end user requirements and maintain state-of-the-art capability, STACOM systems must be periodically upgraded. Modernization of two large records management systems, the Crime Records Center System and the Intelligence Records Repository System, will eliminate manual filing and retrieval of over 93million Army paper files. The transition to modern electronic storage and retrieval of these files will improve service to MACOMs and improve management of Army civilian and military personnel.</p> <p>JUSTIFICATION: PERMS: FY 96/97 funds will support purchasing additional storage capacity and enhanced functionality and technology insertion.</p> <p>STACOM II: FY 96/97 funds support continued enhancement of the existing Army-owned Standard Army Computer Output Microform (STACOM) systems and modernization of two large scale records management systems, the Crime Records Center System and Intelligence Records Repository System.</p>								
(ID CODE A)		P-1 Shopping List Item No. 92		Page No. 1 of 3		EXHIBIT P-40		
DD Form 2454								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME OPTICAL DIGITAL EQUIP (ODE) (BD3956)				C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		FY 98	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
WEAPON SYSTEM COST ELEMENTS											
PERMS	A	VAR	VAR	1,996	VAR	1,215	VAR	1,378	VAR	3,004	VAR
STACOM II	A				VAR	1,689	VAR	1,185	VAR	928	VAR
TOTAL				1,996		2,904		2,563		3,932	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE OPTICAL DIGITAL EQUIPMENT (BD3956)						
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVISE REQ'D	IF YES, WHEN AVAIL
PERMS: Addl Storage Technology Insertion										
FY94	PRC	OPTION*	ISSAA	APR 94	JUL 94	VAR**	VAR**			
FY95	PRC	OPTION*	ISSAA	MAR 95	JUN 95	VAR**	VAR**	YES	NO	
FY96	PRC	OPTION*	ISSAA	OCT 95	JAN 96	VAR**	VAR**	YES	NO	
FY97	PRC	OPTION*	ISSAA	OCT 96	JAN 97	VAR**	VAR**	YES	NO	
STACOM II:										
STACOM II (JMIPS) Upgrade										
FY95	KODAK	OPTION*	ISSAA	DEC 94	JAN 95	VAR#	VAR#	YES	NO	
FY96	KODAK	OPTION*	ISSAA	DEC 95	JAN 96	VAR#	VAR#	YES	NO	
FY97	KODAK	OPTION*	ISSAA	DEC 96	MAY 97	VAR#	VAR#	YES	NO	
Optical Digital Imaging Equipment (ODIE)										
FY95	VAR***	C/FP	Ft. Meade	FEB 95	MAR 95	6	VAR#	YES	NO	
FY96	VAR***	C/FP	Ft. Meade	DEC 95	MAY 96	2	VAR#	YES	NO	

D. Remarks:
PRC-Planning Research Corp., Maclean, Va.
SAA-Information Systems Selection and Acquisition Agency
option to existing C/FP contract
***Buys additional terminals & juke box storage units to meet various site configurations.
#Option will consist of multiple sites and unique unit costs.
***Kajax Engineering Inc., Arlington, Va.; Ensure Inc., Columbia, Md.; Planning Research Corp., Maclean, Va.

REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE STRATEGIC WARGAMING (BE4170)								
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY										
COST (in Millions)		3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<p>DESCRIPTION: The U.S. Army War College (USAWC) will establish a Strategic Wargaming Operations Group Special Security Office and Army Worldwide Military Command and Control System (IWMCCS) Information System (AWIS) Center. Additionally, there will be a consolidation of all installation voice/data and record communications systems in this facility. Support for the Army operational mission requirements, Strategic Wargaming and Commanders-in-Chief (CINC) level conferencing are also to be consolidated into the new building. Implementation of the Information Mission Area (IMA) systems requires the engineering, furnishing, installing, and testing of systems to include Local Area Networks (LANs); Switched Video for generation and display on large screens, conference rooms, and wargaming rooms; translation audio system; secure intercom for wargaming; and relocation and expansion of the Video Teleconferencing Center (VTC). This project will meet the requirement from the Army Chief of Staff (CSA) and Deputy Chief of Staff for Operations (DCSOPS) for the USAWC to support Army level operational missions and warfighting through strategic level wargaming, simulations, symposia, Commander in Chief (CINC) conferences, and similar functions.</p>										
(ID CODE A)		P-1 Shopping List Item No. 92			Page No. 1 of 3			EXHIBIT P-40		
DD Form 2454										

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME STRATEGIC WARGAMING (BE4170)		C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
Procurement of new equipment, (Local area network components, video switch equipment, large screen displays, monitors, video origination equipment, audio components), and relocation of existing equipment (Data processing center, high frequency radios, news services, Video Teleconferencing Center, Army Worldwide Military Command and Control System), first year warranty extension and New Equipment Training.	A	VAR	VAR						
				3,150					
TOTAL				3,150					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE STRATEGIC WARGAMING (BE4170)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
System Hardware, Installation, & Test FY 94	E-Systems, Inc	C/FP/OPTION	CECOM	DEC 93	FEB 94	VAR *	VAR *				

D. Remarks:
 E-System, Inc, Garland, TX
 * The subsystems provided under this program are to be engineered, furnished, installed, and tested at a specific site and have no standard production cost.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE ACQUISITION INFORMATION MANAGEMENT (AIM) (BE2000)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<p>DESCRIPTION: The Acquisition Information Management (AIM) system is the sole acquisition information initiative which will support the Army acquisition community in a multi-level secure environment. AIM will provide an integrated executive information system capability, which will promote efficiencies in program execution and facilitate statutory reporting from the lowest levels of the acquisition process to Congress. AIM will also provide standard DOD acquisition management data for joint weapon system programs, facilitate the exchange of timely, accurate information in a standard reusable format, and improve the decision making process of managers at all levels. AIM features incremental development and rapid prototyping. This acquisition process will streamline and expedite the procurement of an information system in support of the Army Acquisition Corps (AAC) acquisition management reporting requirements by using Commercial Off the Shelf (COTS) and Non-Developmental Item (NDI) products. The long term AIM objective is to provide the Army leadership with a common, multi-level secure, research, development, and acquisition (RDA) information infrastructure by linking acquisition community networks and providing access to authorized users at all levels. Data within the network will be collected, reviewed, validated, controlled, and retransmitted to users to meet Army and DOD RDA information management needs. AIM will provide the AAC with the requisite tools to support executive decision making; to improve acquisition information accuracy and timeliness through data sharing, elimination of redundant data entries and reduction in erroneous data. AIM will provide the infrastructure to process and transmit data in classified and unclassified environments.</p>									
(ID CODE A)		P-1 Shopping List Item No. 92		Page No. 1 of 3		EXHIBIT P-40			
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME ACQUISITION INFORMATION MANAGEMENT (AIM)/BE200			C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS			IDENT CODE	FY 94		FY 95		FY 96		FY 97		
				Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
OSE Compliant Infrastructure			A				VAR	VAR	3,011			
TOTAL												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								ACQUISITION INFORMATION MANAGEMENT (AIM) (BE20000)	
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Data Servers & Process/Data Servers FY95	Loral Fed Sys., Oswego, NY.	C/FP	ISSAA	FEB 95	MAR 95	VAR*	VAR*	YES	NO		
Associated Communications Infrastructure FY95	AT&T, Greensboro, NC.	C/FP	ISSAA	FEB 95	MAR 95	VAR*	VAR*	YES	NO		
COTS Software FY95	Loral Fed Sys., Oswego, NY.	C/FP	ISSAA	FEB 95	MAR 95	VAR*	VAR*	YES	NO		
Multi-Functional Workstations FY95	Loral Fed Sys., Oswego, NY.	C/FP	ISSAA	FEB 95	MAR 95	VAR*	VAR*	YES	NO		
Printers FY95	Loral Fed Sys., Oswego, NY.	C/FP	ISSAA	FEB 95	MAR 95	VAR*	VAR*	YES	NO		

D. Remarks:
 Unit costs vary by configuration. Quantities vary to meet specific needs of developmental, design/testing, and prototype test bed sites.
 COTS-Commercial Off the Shelf

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET							DATE
DD-COMP(AR) 1092									February 1985
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
Other Procurement, Army 2 - Communications and Electronics Equipment		NG REFORM INITIATIVE - TITLE XI (BE3800)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (in Millions)	\$	0.0	\$	\$	\$	7.5	0.0	0.0	0.0
<p>DESCRIPTION:</p> <p>This program is a new initiative in support of the Army National Guard Combat Readiness Reform Act of 1992. It implements Title XI, Ground Force Readiness Enhancement. Funds will provide automation/communications infrastructure necessary for Forces Command (FORSCOM) to support the training of National Guard (NG) units at FORSCOM installations. Primary emphasis is to comply with the Readiness Reform Act by providing mandated training and equipment.</p> <p>JUSTIFICATION:</p> <p>FY 96 funds will buy non-tactical trunked radio systems and departmental LANs at selected FORSCOM installations. FORSCOM will use these funds to implement non-tactical trunked radio systems (NTTR) on FORSCOM installations training NG units. The NTTR system permits multiple users and talk groups to share frequencies, thereby conserving the frequency spectrum. The NTTR system will save funds by eliminating the need for numerous radio nets on the installation and widespread use of cellular phones. The enhanced infrastructure has a direct correlation to quality of training given. Funds will also be used to provide automation support to NG units receiving training on FORSCOM installations. This will include mobilization and reconstitution support for deployed units, and connectivity to the installation backbone LAN at FORSCOM installations (not covered under other centrally managed programs). Funds will bridge shortfalls and capability to conduct day to day business at the installation, and link automation resources within an office or building to the backbone LAN. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platforms is severely handicapped without the full integration of functional LANs for command and control, supply, transportation, finance, medical support, etc.</p>									

(ID CODE A)

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Item No. 92

DD Form 2454

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME NG REFORM INITIATIVE - TITLE XI (BE3800)			C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94 Unit Cost Qty Total Cost		FY 95 Unit Cost Qty Total Cost		FY 96 Unit Cost Qty Total Cost		FY 97 Unit Cost Qty Total Cost		
Installation Non - Tactical Trunked Radio Systems		A					VAR	VAR	5,622		
Departmental Local Area Networks (LANs)		A					VAR	VAR	1,853		
TOTAL					0	0			7,475	0	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE NG REFORM INITIATIVE - TITLE XI (3800)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Non - Tactical Trunked Radio Systems Departmental Local Area Networks (LANs)	TBS	C/FP	FORSCOM	Nov 95 **	Jan-96	VAR *	VAR *	YES	NO		
	TBS	C/FP	FORSCOM	Nov 95 **	Jan-96	VAR *	VAR *	YES	NO		
REMARKS: * Quantities and unit costs vary by site configuration. ** Multiple awards throughout the fiscal year.											

REPORTS CONTROL SYMBOL DD-COMP/AR 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE RESERVE HQ AUTOMATION (BE4000)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	0.0	0.9	0.9	0.9	0.9	0.9	2.1	2.1
<p>DESCRIPTION:</p> <p>US Army Reserve Information Management Master Plan (USAR IMMP) provides automation support for Headquarters, US Army Reserve Personnel Center (ARPERCEN) missions, to include providing for Total Army mobilization with trained personnel through command and control, providing life cycle personnel management for Army reserve soldiers, and providing personnel services and administrative support to Army Veterans. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. ARPERCEN is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB-Reserve and RCAS.</p> <p>JUSTIFICATION:</p> <p>FY 96/97 funds will buy the upgrade of Army's Personnel Enterprise System Platform and will provide initial interface support between TAPDB-Reserve to assist in the implementation of the phased fielding of RCAS; the Army build-down; and the modernization of the mobilization process based upon lessons learned during Desert Storm. As the Active, Reserve, and the National Guard draw-down, ARPERCEN's missions increase in size and scope. ARPERCEN has over 2.2million soldiers' records in TAPDB-Reserve and a database of over 25million Veterans and Retirees, dating back to 1917. These customers deserve the best service possible. If ARPERCEN is to provide adequate support to handle the increased workload and improve quality of service, the business processes must be reengineered and supported with adequate ADP equipment.</p>								
(IID CODE A)		P-1 Shopping List Item No. 92		Page No. 1 of 3		EXHIBIT P-40		
DD Form 2454								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME RESERVE HQ AUTOMATION (BE4000)				C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		FY 98	
WEAPON SYSTEM COST ELEMENTS		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Total Cost
USA RESERVE INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP)	A				860	1	860	855	1	855	913
TOTAL							860			855	913

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)							A. DATE February 1995			
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE RESERVE HQ AUTOMATION				(BE4000)			
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
USAR IMP: Army's Personnel Enterprise System										
FY95	EDS	C/FP	DSSW	APR 95	JUL 95	1	860	YES	NO	
FY96	EDS	C/FP	DSSW	MAY 96	SEP 96	1	855	YES	NO	
FY97	EDS	C/FP	DSSW	APR 97	JUN 97	1	913	YES	NO	
D. Remarks: EDS-Electronic Data Systems, Plano, Tx. DSSW-Defense Supply Service-Washington										

REPORTS CONTROL SYMBOL D-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE SUSTAINING BASE INFO SVC (SBIS) (BE4200)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	1.5	0.1	19.2	23.6	27.2	14.6	14.6	14.6
<p>DESCRIPTION: The SBIS program will transition the Army's sustaining base information processing, including applications software and the infrastructure needed to support it, into an Open Systems Environment (OSE). The OPA funding provides for the acquisition of computer hardware, executive software, software tools, and communications in support of sustaining base OSE applications.</p> <p>JUSTIFICATION: The contract for the SBIS Open Systems Environment (OSE) compliant automation infrastructure and applications software was awarded in June 1993. An OSE Proof of Concept Test is being conducted. The FY 93 automation infrastructure acquisitions in support of this test were funded with OSD CIM funds. FY 96 OPA continues fielding of infrastructure to support the initial group of OSE applications beyond the 12 test sites. The final mix of workstations, processors, servers and related commercial-off-the-shelf software and communications per site will be determined by site surveys. FY 96 OPA will buy 19 Increment I sites FY 97 funds will buy 21 Increment I sites and the initial Increment II sites to begin testing and validation of Increment II software.</p>								
(ID CODE A)		P-1 Shopping List Item No. 92		Page No. 1 OF 3		EXHIBIT P-40		
DD Form 2454								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME SUSTAINING BASE INFO SVC (SBIS)				C. MANUF. Numerous See 5a.		D. DATE February 1995						
	IDENT CODE	FY 94 Unit Cost Qty Total Cost	FY 95 Unit Cost Qty Total Cost	FY 96 Unit Cost Qty Total Cost	FY 97 Unit Cost Qty Total Cost										
WEAPON SYSTEM COST ELEMENTS															
Infrastructure to complete Proof of Concept Site Infrastructure to include: Workstations NCR 3550 Data Servers NCR 3450 Process/Data Servers COTS Software Associated Communications Infrastructure Printers	A	VAR	VAR	1500	VAR	VAR	119	VAR	VAR	19,218	VAR	VAR	23,608		
	A														
TOTAL				1,500			119			19,218			23,608		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE SUSTAINING BASE INFO SVC (SBIS) (BE4200)						
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
SBIS OSE Devices*											
FY 94	PRC, McLean, VA	C/FP	ISSAA	Mar-94	Apr-94	VAR**	VAR**				
FY 95	LORAL Federal Sys Co. Oswego, NY	C/FP/Option	ISSAA	Feb-95	Apr-95	VAR**	VAR**	YES	NO		
FY 96	LORAL Federal Sys Co. Oswego, NY	C/FP/Option	ISSAA	Dec-95	Mar-96	VAR**	VAR**	YES	NO		
FY 97	LORAL Federal Sys Co. Oswego, NY	C/FP/Option	ISSAA	Dec-96	Mar-97	VAR**	VAR**				

MARKS:

** Unit costs vary by configuration.
Quantities vary to meet specific needs at variety of functional work centers.

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE INSTALLATION SUPPORT MODULE (ISM) (BD3010)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<p>DESCRIPTION:</p> <p>Installation Support Module (ISM) will automate and integrate multi-functional day-to-day installation processes. ISM is an Army program to standardize/centrally manage selected installation level functional software applications and their supporting automation infrastructure. ISM will replace multiple command, installation unique, manual and stand-alone automated systems with a comprehensive integrated set of modular applications. ISM will reduce sustainment costs, improve data accuracy, and improve overall installation management by reducing multiple installation level systems and databases.</p>									
(ID CODE A)									
(ID CODE A)									
DD Form 2454		P-1 Shopping List Item No. 92		Page No. 1 of 3		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME INSTALLATION SUPPORT MODULE (ISM)						C. MANUF. Numerous See 5a.	D. DATE February 1995		
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		Total Cost	FY 95			FY 96			FY 97		
		Unit Cost	Qty		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Installation Infrastructure (includes PCs, Workstations, Printers, & required connectivity	A	VAR	VAR	1,546									
TOTAL				1,546									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE				A. DATE				
Other Procurement, Army 2 - Communications and Electronics Equipment		INSTALLATION SUPPORT MODULE (ISM)				February 1995				
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Installation Infrastructure FY94	Planning Research Corp., Maclean, Va.	C/FP	Ft. Belvoir	MAR 94	MAY 94	VAR*	VAR**			

D. Remarks:

- *Quantities vary to meet specific needs at a variety of functional work centers
- **Unit costs vary by configuration

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (In Millions)		6.4	23.3	25.3	23.6	27.0	29.8	29.8	29.8
<p>DESCRIPTION: This budget line assigned to the Strategic Logistics Agency (SLA), one of 15 Agencies with implementation responsibility, has been developed to support the Total Distribution Program (TDP) a Vice Chief of Staff, Army directed initiative to correct the deficiencies in the distribution of materiel, equipment, personnel replacements and mail which occurred during Operation Desert Shield/Storm. The TDP supports Program Budget Decision (PBD) 731, "Improving Logistics Support in Combat Zones." Lessons Learned during Desert Shield/Storm revealed that the materiel distribution system suffered from chronic problems. System users ordered the same part over and over. Backlogs developed at both CONUS and theater ports. Shipping and receiving documentation was missing or inadequate. Over 40,000 containers were shipped into theater and about 25,000 had to be opened to determine contents. Resupply of spare parts was ineffective, and equipment was deadlined. The TDP is an initiative whose purpose is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from origin to destination. Critical corrective actions include development and fielding of assured communications capability for logistics, the use of emerging technologies to enhance visibility and materiel accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The foundation of the TDP is the Total Distribution Action Plan (TDAP), developed by a Task Force under the direction of the Army DCSLOG and approved by the VCSA on 27 May 92. The TDAP identifies 140 problem areas with milestones for implementing corrective actions. Approximately 15 Army and Joint agencies have implementing responsibilities. This budget line reflects the funding necessary to implement key fixes for issues assigned to one agency.</p> <p>JUSTIFICATION: FY96/97 Funding will be used to develop assured communications for transmission of logistics information both within a theater of operations and between the theater and sustaining base. Work is underway to interface the Tactical Packet Network operating in the tactical environment with communications architecture of the sustaining base systems, enabling the warfighter to pass data to the sustaining base. The lack of such assured communications was a critical shortfall hampering the distribution process during the Gulf War. In addition, the FY96/97 funding will support the development of source data automation capability which will be able to generate "tags" or Automated Information Technology (AIT), a capability to enhance tracking of critical materiel through the distribution pipeline. The tags can be read at a distance while assets are moving through or being stored at DOD facilities. Container contents can be identified in an austere environment without access to an automated system and receipt processing will be enhanced, thus shortening the distribution pipeline.</p>									
(ID CODE A)		P-1 Shopping List Item No. 92		Page No. 1 of 4		EXHIBIT P-40			
DD Form 2454									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME STRATEGIC LOGISTICS PROGRAM SLP (BD7000)						C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Unit Cost	Qty	Total Cost	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty				
WEAPON SYSTEM COST ELEMENTS													
STRATEGIC LOGISTICS PROGRAM Total Distribution Program (TDPI)/TPN-DDN Interface/Mobile Gateway Van	A	VAR	VAR	1,322	VAR	2,000	VAR	2,000	VAR	VAR	VAR	2,000	
Packet Switches upgrade AN/TTC 39 to AN/TTC 39E	A					11,669	VAR	4,400	VAR	VAR	VAR	3,931	
CSS Automation Fixes Hardware & Software	A					3,160	VAR	12,413	VAR	VAR	VAR	12,711	
Automation ID Technology RF Tags/ interrogators/RF Links/Solar Panels	A	VAR	VAR	674	VAR	6,425	VAR	6,525	VAR	VAR	VAR	6,990	
Army Food Management Information System (AFMIS)	A	VAR	VAR	1,074	VAR								
Standard Army Maintenance System (SAMS)	A	VAR	VAR	1,000	VAR								
Standard Army Retail Supply System (SARSS)	A	VAR	VAR	2,202	VAR								
OSC	A	VAR	VAR	145	VAR								
TOTAL				6,417		23,254		25,338				23,632	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE STRATEGIC LOGISTICS PROGRAM (SLP)					(BD7000)	
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
SLP											
TOTAL DISTRIBUTION PROGRAM											
Mobile Gateway Van											
FY94	VAR*	C/FP	CECOM	AUG 94	SEP 94	VAR**	VAR**				
FY95	VAR*	C/FP	CECOM	FEB 95	MAY 95	VAR**	VAR**				
FY96	VAR*	C/FP	CECOM	FEB 96	MAY 96	VAR**	VAR**	YES	NO		
Packet Switch Upgrade											
FY95	GTE, Taunton, Ma.	C/FP	CECOM	APR 95	MAY 95	VAR**	VAR**	YES	NO		
FY96	GTE, Taunton, Ma.	C/FP	CECOM	JAN 95	APR 95	VAR**	VAR**	YES	NO		
FY97	GTE, Taunton, Ma.	C/FP	CECOM	JAN 96	APR 96	VAR**	VAR**	YES	NO		
CSS Auto Fixes											
FY95	Sysorex Inc.	C/FP	Ft. Belvoir	JAN 95	JUL 95	VAR**	VAR**				
FY96	TBS	C/FP	Ft. Belvoir	JAN 96	APR 96	VAR**	VAR**	YES	NO		
FY97	TBS	C/FP	Ft. Belvoir	DEC 97	MAR 97	VAR**	VAR**	YES	NO		
Automation ID Technology											
FY94	Savi Tech.,	C/FP	AF MITLA Ofc.	AUG 94	OCT 94	VAR**	VAR**				
FY95	Mountain View, Ca.	C/FP	AF MITLA Ofc.	JAN 95	MAY 95	VAR**	VAR**				
FY96	Savi Tech.,	C/FP	AF MITLA Ofc.	JAN 96	MAY 96	VAR**	VAR**	YES	NO		
FY97	Mountain View, Ca.	C/FP	AF MITLA Ofc.	JAN 97	MAY 97	VAR**	VAR**	YES	NO		

AF MITLA Ofc.- Air Force Microcircuit Tech. Logistics Application Office

Sysorex Inc., Fairfax, Va.

D. Remarks:

*Contractors Vary depending on component purchased.

**Qty & unit cost vary with location.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE STRATEGIC LOGISTICS PROGRAM (SLP)							(BD7000)	
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
SLP (Continued):											
AFMIS											
Minicomputers with peripherals FY94	AT&T Greensboro, NC.	C/FPM-8(6)	Ft. Belvoir	JAN 94	MAR 94	VAR*	VAR*				
SAMS:											
Development Hardware FY94	Planning Research Corp. Maclean Tx.	C/FP	ISSAA	APR 94	JUN 94	VAR*	VAR*				
SARSS:											
Installation Infrastructure Hardware FY94	Electronic Data Sys. Plano, Tx.	C/FP	Ft. Belvoir	APR 94	JUN 94	VAR*	VAR*				
Objective Supply Capability:											
PCs, MODEMS, & Peripherals FY94	Electronic Data Sys. Plano, Tx.	C/FPM5(4)	Ft. Belvoir	DEC 93	MAR 94	VAR*	VAR*				
D. Remarks:											
ISSAA- Information Systems Selection & Acquisition Agency											
*Unit cost & Equipment configuration Requirements vary by site.											

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	7.7	7.6	6.5	6.1	5.7	5.7	6.0	6.1

DESCRIPTION: This budget line includes a number of systems that support Army headquarters worldwide. These systems are included in Army's Information Mission Area (IMA) Modernization Plan.

JUSTIFICATION:

HQDA ADPE

Provides for information management support to HQDA across the entire Information Mission Area (IMA) spectrum. It includes initiatives approved by a joint OSA/ARSTAF senior planning group, and is reflected in the HQDA Information Management Plan (DA IMPI). The FY 96/97 funds will buy IMA support including file servers, LANs, multipurpose workstations, copiers, stand-alone end-user devices, other peripherals, and decision support systems. These acquisitions will continue to improve the productivity of the senior leadership and their staffs located within the National Capital Area through improved access to functional and decision-level information. These decisions impact force structure and modernization, logistics, personnel, finance and every functional area of the Army.

LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS)

LAAWS is an approved STAMIS for Army law offices. It supports automated research and preparation of legal advice to Army commanders, from brigade through HQDA level, on target selections, treatment and classification of refugees and prisoners of war, military operations in occupied areas, international treaties, Law of War, etc., and assists individual soldiers with legal readiness matters. LAAWS produces different types of legal documents, including wills and powers-of-attorney. It supports automated legal research, electronic mail (through DDN connectivity), the processing and management of claims for/against the Army, and the electronic distribution of legal materials. FY96/97 funds provide for the acquisition of LANs, CD-ROM drives, software, and other peripheral equipment required to support Army law offices' automation standardization and development of an Armywide legal resources network. Automation of law offices is a critical step required to offset the effects of the Army drawdown on legal personnel. It will enable the legal staff to continue its efforts in protecting Army's interests in civil/environmental litigation, procurement fraud, and other legal claims areas. This effort is made even more urgent by today's military involvement in multinational peacekeeping/humanitarian efforts.

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REPORTS CONTROL SYMBOL DD-COM(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)	
(Continuation) <p>ARMY MODEL IMPROVEMENT PROGRAM (AMIP) AMIP is designed to improve the Army's analytic capability by providing a consistent basis to support decision making affecting force structure, doctrine, and procurement. By using state-of-the-art hardware and new software technology, AMIP will develop an integrated family of computerized combined arms combat models with supporting data bases. These models will support studies, research, and training. Component models will be interfaced and tested for validity and consistency of representations and results. The FY 96/97 funds will procure state-of-the-art computer simulation and graphics equipment/software. The equipment will be used by numerous Analysis Agencies, MACOMs, and National Laboratories to develop more efficient, cost effective, realistic scenarios and real-time simulations of complex combat and associated processes for analysis of data. The achievement of these goals will provide readily understood, valid, and more responsive input into the decision making process affecting weapons procurement, force development, force deployment, tactics, sustainment, policies, and enhance the overall warfighting capability of the Army. The funds will also provide for the upgrading of existing simulation/support equipment and software. AMIP directly supports Task 9, Integration of C4I Models and Simulation, of the Army Enterprise Strategy.</p>		
<p>HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES)</p> <p>HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. Since initial fielding of HOMES, Army installation Housing Offices have become dependent on the system to fulfill their mission: management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. An equipment failure effectively closes a Housing Office operation. The HOMES Project Plan includes replacement of outdated INTEL 310/320 and AT&T 3B2 hardware. INTEL Corp. no longer manufactures replacement parts for this line of computers. The increasing frequency of equipment failures and the lack of equipment replacement parts may soon jeopardize the ability of Army housing personnel to perform their mission. The HP9000 will support integration of the HOMES system with local office automation. HOMES has been revitalized using the IEF/I-CASE tool to obtain the maintenance benefits identified by CIM/DISA. HOMES has demonstrated software maintenance time reduction of 30%. Software engineered with I-CASE tools requires powerful processors, and existing equipment provides inadequate performance. Fielding I-CASE generated software requires HP9000 class equipment. FY 96/97 funds will procure HP9000 and peripheral equipment to replace current obsolete equipment.</p>		
DD Form 2454	P-1 Shopping List Item No. 92	Page No. 2 of 12 EXHIBIT P-40

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE41611)	
<p>(Continuation)</p> <p>STRATEGIC C2 FACILITIES</p> <p>Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the senior leadership of the Army and to provide a completely integrated, multi-level security system with connectivity to DoD's Global Command and Control System (GCCS). The system currently includes an Information Processing System with a variety of work-stations; a local area network (over 250 users); an Automated Message Handling System (AMHS); a Credential Access System (CAS); and a Briefing Display and Support System. A fully integrated desktop with user friendly tools and access to most Army and DoD databases is a key AOC goal. The system supports every crisis action involving the Army and allows the Senior Army Leadership and ARSTAFF Action Officers to quickly access, manipulate, and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate as well as all crisis action and JCS exercises. FY 96/97 acquisitions include critical components for LAN, AMHS, and CAS to improve systems reliability and ensure complete compatibility with AGCCS, GCCS and other joint staff initiatives.</p>		
<p>SITE R INTEGRATION PROGRAM (SRIP)</p> <p>The Army as the Executive Agent for the Alternate Joint Communication Center (AJCC) at Site R, has responsibility for insuring the integration of the systems/improvements implemented at the AJCC. This responsibility includes planning and executing the replacement of various information systems and other IMA equipment reaching the end of their life cycle. The AJCC includes communications facilities at Site C, Site RT and the underground facility at Site R. The SRIP supports the Army Executive Agent mission. The FY 96/97 funds will support the following projects. Automation of the Communications Systems Shielded Room (CSSR) Patch and Test Facility (PTF) will automate the patch and test function so that it can be operated from the main technical control facility. This will allow the 111th Sig Battalion to trouble shoot, manage, and test circuits from a central circuit management office. The Technical Control Automation effort will automate manual functions in the Army's Technical Control Facility (TCF) with various state-of-the-art diagnostic and alarming equipment capable of circuit establishment, communications service restoral, subsystems fault isolation, status reporting, maintenance database management, and circuit quality control. The existing manual TCF continues to have excessive circuit down time due to lack of state-of-the-art diagnostic and alarm equipment. The present method of trouble shooting and fault isolation is labor intensive and is based on technology of the 1970's. Without this automation effort the Army cannot guarantee 99.9% world wide communications reliability as mandated in Joint Staff directives. Many of the circuits maintained by the TCF are JCS required Command and Control systems which support the National Military Command Center (NMCC) Site R. The Site R LAN Integration Project will integrate 8 individual LANs within the Alternate Joint Communications Center into one multi-user Wide Area Network (WAN). The system will allow users in the network to communicate or share resources with other users. Also, there will be common access to the Fort Ritchie E-mail host, file servers, printer servers, a site bulletin board, and any mainframe system desired. Finally, this system will be able to run at multilevel secure from unclassified to Top Secret with Special Access.</p>		
(ID CODE A) DD Form 2454	P-1 Shopping List Item No. 92	Page No. 3 of 12 EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)				C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Total	
WEAPON SYSTEM COST ELEMENTS		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Total	
MAPP	A	VAR	VAR	VAR	VAR	632		VAR	VAR	1,496	1,499
HQDA ADPE	A	VAR	VAR	VAR	VAR	1,488		VAR	VAR	664	668
LAAWS	A	VAR	VAR	VAR	VAR	677		VAR	VAR	1,373	1,409
AMIP	A	VAR	VAR	VAR	VAR	1,380		VAR	VAR	348	526
HOMES	A	VAR	VAR	VAR	VAR	503		VAR	VAR	1,501	877
STRATEGIC C2 FACILITIES	A	VAR	VAR	VAR	VAR	1,432		VAR	VAR	1,131	1,156
SITE R INTEGRATION PROGRAM	A	VAR	VAR	VAR	VAR	1,452		VAR	VAR		
TOTAL						7,564				6,513	6,135

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)								
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
MAPP: Defense Simulation Internet Upgrade FY94	Bolt, Baranek, & Newman	C/FP	ARPA	FEB 94	MAR 94	1	210				
European Simulation After Action Review System FY94	SUN, Vienna, Va.	C/FP	NPIC	JAN 94	FEB 94	1	47				
Theater Transition & Sustainment Model FY94	Digital Equip.	C/FP	NATO	FEB 94	MAR 94	1	88				
Joint Special Operations Task Force/Analysis & Data Movement System FY94	Booz-Allen	C/FP	DISA	FEB 94	MAR 94	1	357				
Dynamic Analysis Replanning Tool FY94	SUN & MTI	C/FP	JSJ8	APR 94	MAY 94	1	78				
Distributed Collaborative Planning-Proof of Concept FY94	Digital Equip.	C/FP	USAREUR	APR 94	MAY 94	1	149				
CD-ROM Server FY94	Digital Equip.	C/FP	USAREUR	APR 94	MAY 94	1	42				
Distributed Collaborative Planning-System FY95	SUN, Vienna, Va.	C/FP	NPIC	DEC 94	MAR 95	1	442				
D. Remarks: Digital Equip., Greenbelt, Md. MTI-Manufacturing Tech. Inc. Bolt, Baranek, & Newman, Boston, Ma.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

B. APPROPRIATION / BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							(BE4161)	
Other Procurement, Army 2 - Communications and Electronics Equipment				HQ MANAGEMENT INFORMATION SYSTEMS								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL		
MAPP (Continued)												
C4 Intelligence for the Warrior Planning System												
FY95	TBS	MIPR	USAREUR	FEB 95	MAR 95	1	35	YES	NO			
Distributed Collaborative Planning Network												
FY95	TBS	MIPR	USAISC	FEB 95	APR 95	1	155	YES	NO			
HQDA ADPE:												
End User Devices/LAN Components												
FY94	VAR*	C/FP	DSSW	VAR**	VAR**	VAR**	VAR**					
FY95	VAR*	C/FP	DSSW	MAR 95	JUN 95	1	1,609	YES	NO			
FY96	VAR*	C/FP	DSSW	MAR 96	JUN 96	1	1,206	YES	NO			
FY97	VAR*	C/FP	DSSW	MAR 97	JUN 97	1	1,209					
HQDA Correspondence Tracking System												
FY94	VAR*	C/FP	DSSW	VAR**	VAR**	VAR**	VAR**					
High Volume Copier												
FY94	XEROX, Wash D.C.	C/FP	DSSW	APR 94	MAY 94	1	51					
FY96	XEROX, Wash D.C.	C/FP	DSSW	APR 96	JUL 96	1	60	YES	NO			
FY97	XEROX, Wash D.C.	C/FP	DSSW	APR 97	JUL 97	1	70					

D. Remarks:

*Spectrafax Corp, Bethesda, Md.; Micro Star Inc., Jessup, Md.; Inacom Federal, Vienna, Va.; Westco, Silver Springs, Md.; Global Mgt. Systems, Bethesda, Md.
Planning Research Corp., Reston, Va.; Oracle, Arlington, Va.
**Multiple awards with various quantities and unit costs.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
Other Procurement, Army 2 - Communications and Electronics Equipment				HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL	
HQDA ADPE Continued:											
Mid Volume Copier FY96 FY97	XEROX, Wash. D.C. XEROX, Wash. D.C.	C/FP C/FP	DSSW DSSW	APR 96 APR 97	JUL 96 JUL 97	2 2	50 60	YES YES	NO NO		
Mini-Computer Upgrade FY96 FY97	WANG & IBM Wash. D.C.	C/FP C/FP	DSSW DSSW	MAY 96 JUN 97	AUG 96 SEP 97	2 2	50 60	YES YES	NO NO		
LAAWS:											
Wide Area Network FY94 FY95 FY96 FY97	WESTCO TBS TBS TBS	C/FP C/FP C/FP C/FP	DSSW DSSW Ft. Belvoir Ft. Belvoir	JUN 94 FEB 95 NOV 95 NOV 96	OCT 94 APR 95 JAN 96 JAN 97	1 VAR* VAR* VAR*	114 VAR* VAR* VAR*	YES YES YES YES	NO NO NO NO		
AMIP: Iris Computers & Peripherals FY94 FY95	Falcon & Silicon Grap. Falcon & Silicon Grap.	C/FP C/FP	TRAC & AMSAA TRAC & AMSAA	APR 94 MAR 95	MAY 94 JUL 95	VAR* VAR*	VAR* VAR*	YES YES	NO		
D. Remarks:											
WESTCO, Silver Springs, Md.				Silicon Graphics, Silver Springs, Md.							
*Qty and unit cost will be determined by location & configuration.											
TRAC-TRADOC Analysis Center AMSAA- Army Material Sys. Analysis Agency											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE				HQ MANAGEMENT INFORMATION SYSTEMS				(BE4161)	
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC: AVAIL NOW	SPEC: REVIS REQD	IF YES, WHEN AVAIL	
AMIP (Continued)											
Workstations & Peripherals FY94	VAR**	C/FP	VAR***	MAY 94	JUN 94	VAR*	VAR*				
FY95	VAR**	C/FP	VAR***	MAY 95	JUN 95	VAR*	VAR*	YES	NO		
FY96	VAR**	C/FP	VAR***	MAY 96	JUN 96	VAR*	VAR*	YES	NO		
FY97	VAR**	C/FP	VAR***	MAY 97	JUN 97	VAR*	VAR*				
Crimson Workstations & Peripherals FY96	Silicon Graphics	C/FP	TRAC & AMSAA	APR 96	MAY 97	7	57	YES	NO		
FY97	Silicon Graphics	C/FP	TRAC & AMSAA	APR 97	MAY 98	7	57				
RS 6000 Workstations FY96	IBM, Bethesda, Md.	C/FP	CAA	APR 96	MAY 96	2	70	YES	NO		
FY97	TBS	C/FP	CAA	APR 97	MAY 97	2	70				
Transputer & Peripherals FY96	TBS	C/FP	TRAC	JAN 96	FEB 96	1	150	YES	NO		
FY97	TBS	C/FP	TRAC	JAN 97	FEB 97	1	150				
HP 9000/735 Workstations & Peripherals FY94	Hewlett Packard	C/FP	TRAC	FEB 94	MAR 94	2	38				
D. Remarks:											
TRAC-Analysis Center											
*Qty & unit cost vary with site & location requirements.											
**Sun Microsystems, Mountain View, Ca.; Hewlett Packard, Rockville, Md.; Silicon Graphics, Silver Springs, Md.											
***Aberdeen Proving Ground, Tradoc.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)								
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
AMIP (Continued):											
HP 750 Workstations & Peripherals FY96 FY97	Hewlett Packard Rockville, Md.	C/FP C/FP	CAA/AMSAA CAA/AMSAA	JAN 96 JAN 97	FEB 96 FEB 97	5 5	60 60	YES	NO		
Sun Sparc with Peripherals FY96 FY97	SUN, Mountain View, Ca.	C/FP C/FP	CAA/AMSAA CAA/AMSAA	APR 96 APR 97	MAY 96 MAY 97	2 2	54 54	YES	NO		
RS 6000-590 FY95	IBM, Bethesda, Md.	C/FP	CAA	MAR 95	AUG 95	2	120	YES	NO		
Simlab Simsets FY95	TBS	C/FP	CAA	MAR 95	JUN 95	1	65	YES	NO		
Distributed QT Lab FY95	TBS	C/FP	CAA	MAR 95	JUN 95	1	110	YES	NO		
Controls Cluster FY95	TBS	C/FP	CAA	MAR 95	JUN 95	1	100	YES	NO		
Fire Supp C2/Digit Testbed FY95	TBS	C/FP	OPTEC	FEB 95	MAY 95	1	150	YES	NO		
D. Remarks:											
CAA-Concepts Analysis Agency											
AMSAA-Army Materiel Systems Analysis Agency											
OPTEC-Operational Test & Evaluation Cmd.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

HQ MANAGEMENT INFORMATION SYSTEMS

(BE4161)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
AMIP (Continued):										
Syn Terr Integ & Cons System FY95	TBS	C/FP	COE	FEB 95	MAY 95	1	75	YES	NO	
HOMES:										
Technology Insertion, System Upgrades										
FY94	Planning & Research	C/FP	DCMAO	FEB 94	APR 94	VAR *	VAR *	YES	NO	
FY95	Corp., Reston, Va.	C/FP	DCMAO	FEB 95	APR 95	VAR *	VAR *	YES	NO	
FY96	Planning & Research	C/FP	DCMAO	FEB 96	APR 96	VAR *	VAR *	YES	NO	
FY97	Corp., Reston, Va.	C/FP	DCMAO	FEB 97	APR 97	VAR *	VAR *	YES	NO	
STRATEGIC C2 FACILITIES:										
AOC Upgrades (Security Compliance, COTS Upgrades & AMH Enhancements)										
FY94	Jet Propulsion Lab.	MIPR	NASA	JAN 94	MAR 94	1	1,850			
FY95	Pasadena, Ca.	MIPR	NASA	JAN 95	MAR 95	1	1,432			
FY96	Jet Propulsion Lab.	MIPR	NASA	JAN 96	MAR 96	1	1,501	YES	NO	
FY97	Pasadena, Ca.	MIPR	NASA	JAN 97	MAR 97	1	877			

COE-Corps of Engineers

DCMAO-Defense Contracting Administration Office

D. Remarks:

*Qty & unit cost vary with site & location requirements.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

3. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Site R Integration Program:										
NEACP Radio Upgrade FY95	USAF	MIPR	ISMA	NOV 94	JUN 95	3	242			
NEACP Radio Installation FY95	USAF	MIPR	ISMA	APR 95	JUN 95	1	100	YES	NO	
Tech Control Automation & Site Survey FY95	TBS	C/FP	ISMA	APR 95	JUN 95	1	408	YES	NO	
Site R LAN Automation FY96	TBS	C/FP	Ft. Ritchie	FEB 96	NOV 96	1	640	YES	NO	
FY97	TBS	C/FP	Ft. Ritchie	NOV 96	OCT 97	1	1,164			
NEACP Multiplexers FY94	AT&T, Silver Springs, Md	C/FP	Ft. Ritchie	MAR 94	JUL 94	3	9			
PDS Monitors FY94	RGB Tech., Reston, Va.	C/FP	Ft. Ritchie	MAR 94	JUN 94	4	9			
Fiber Optic BOM FY94	SERVE-AIR Lexington, Ky.	C/FP	Lexington Blue Grass Depot	MAR 94	JUN 94	1	546			

D. Remarks:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)									
Other Procurement, Army 2 - Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC: AVAIL NOW	SPEC: REVIS REQD	IF YES, WHEN AVAIL	
Site R Integration Program (Continued):											
Site C Alternate Route FY94	ISEC-CONUS	MIPR	ISMA	FEB 94	MAY 94	1	875				
Patch & Test Facility Automation FY96	TBS	C/FP	Ft. Ritchie	JAN 96	DEC 96	1	500	YES	NO		
Helipad Radios & Installation FY95	US Air Force	C/FP	ISMA	APR 95	JUN 95	1	15	YES	NO		
D. Remarks:											

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET							DATE
DD-COMP(AR) 1082									February 1985
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
Other Procurement, Army 2 - Communications and Electronics Equipment		MACOM AUTOMATION SYSTEMS (BE4162)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (In Millions)	\$ 9.1	\$ 15.0	\$ 22.5	\$ 17.8	\$ 17.3	\$ 17.5	\$ 30.1	\$ 32.1	

DESCRIPTION:

This budget line supports automation systems requirements of Major Army Commands (MACOMs) and field activities not included in other centrally managed programs. These requirements conform with the Army's Information Mission Area (IMA) Architecture and are included in MACOM IMA Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

JUSTIFICATION:

MACOM AUTOMATION SYSTEMS: FY 96/97 funds will support systems modernization/life cycle replacement throughout the Army Materiel Command (AMC), Training and Doctrine Command (TRADOC), Forces Command (FORSCOM), US Army Europe (USAREUR), Military District of Washington (MDW), US Army Pacific (USARPAC), US Army Information Systems Command (USAISC), Eighth US Army (EUSA), Criminal Investigation Command (CIDC), Intelligence and Security Command (INSCOM), US Army Recruiting Command (USAREC), and Army War College (AWC). Also included are local area networks (LANs) for Army medical treatment facilities to improve data sharing and management/delivery of health care. Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/lend user level systems architecture. These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. Due to increased emphasis on expense/investment criteria for Information Mission Area (IMA) acquisitions, this budget line reflects MACOM funding realignments (OMA to OPA transfers) to ensure investment items are budgeted in the correct appropriation. In addition, OPA funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology that will streamline manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes and infrastructure to support leaner organizations and the needs of a force projection Army. All acquisitions have or will be supported by MACOM Information Requirements Studies and documentation in the MACOM IMA Modernization Plans, and will conform with the Army's IMA Architecture.

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE MACOM AUTOMATION SYSTEMS	(BE4162)	
<p>(Continuation)</p> <p>SMALL COMPUTER PROGRAM (SMC): The SMC program will provide the Army, other services, and participating agencies, with small computer systems which combine hardware, software, and networking products through a cadre of indefinite delivery/indefinite quantity contracts. FY 96/97 funds will buy procurement systems components, and tools for test and evaluation, and configuration management at the Technology Integration Center and Small Computer Program Office, to ensure systems interoperability and conformance to Army architecture.</p> <p>ARMY ELECTRONIC COMMERCE: Army Electronic Commerce (EC) synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohesive electronic business network. Army EC complements other Defense-wide efforts such as the Defense Acquisition Reform, Corporate Information Management, and the Joint Computer-aided Acquisition and Logistics Support. By conducting business electronically, the Army will be able to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC will facilitate the increase of administrative, transportation, contracting, and acquisition requirements which support the deployment. FY 96/97 funds will acquire hardware and software upgrades and communications for implementing Army EC based on business process re-engineering efforts and Army priorities. Implementation will be coordinated with functional proponents, OSD, and the Defense Information Systems Agency (DISA). Acquisitions will include hardware and software to accommodate translating electronic output into American National Standards Institute Electronic Data Interchange standards (ANSI X12).</p> <p>ARMY DATA MANAGEMENT AND STANDARDS PROGRAM (ADMSP): The ADMSP provides the foundation for future information systems development, i.e., data models, architectures, and standard data elements. Through modeling, data is being standardized, creating the capability to share data Army-Wide, which promotes interoperability between organizations, improves accuracy, and reduces data redundancy. The derived benefits include: modernized cost effective systems, lower system maintenance costs, elimination of duplicate reports and forms, and the identification of new business methods and information system opportunities for the Army. The data models, which have been developed for information class proponents, will be further integrated into the Army Data Model (ADM). The FY 96/97 funding will support implementation through investment in automated tools for the US Army Information Systems Software Center (USAISSC) Data Management Directorate, HQDA functional proponents, and Major Army Commands (MACOMs).</p>			
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REPORTS CONTROL SYMBOL DD-COM(ARI) 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE MACOM AUTOMATION SYSTEMS (BE4162)		
<p>(Continuation)</p> <p>SOFTWARE ENVIRONMENT - SOFTWARE ENGINEERING MODERNIZATION PROGRAM (SEMPI): SEMP will permit Army Central Design Activities (CDA) to provide higher quality, more reliable and responsive automation software systems and services to the MACOMs at lower cost. Funding has been programmed to acquire state-of-the-art software engineering environment support for the optimization and automation of critical MACOM processes and functions. This program will result in Army automation systems which increase MACOM productivity, efficiency, and operational effectiveness; reduce operation and sustainment costs; and are developed and deployed faster at lower costs. FY 96/97 funding will support the modernization of automation systems software engineering environments with Army CDAs. Modernization is essential to accommodate rapidly escalating information processing requirements with declining manpower resources. Acquisitions include Scalable Processor Architecture (SPARC), Reduced Instruction Set Computer (RISC), hardware file servers, and engineering workstations; telecommunications equipment and software; and Integrated Computer Aided Software Engineering (I-CASE) tools required to develop, re-engineer, and provide post deployment software support for MACOM and end user automation systems. File servers support the consolidation, integration, coordination, and sharing of automation project information within and among CDAs. This supports the deployment of standard databases and software applications, increases interoperability, and eliminates duplication of functions among systems. Engineering workstations improve the productivity of project personnel. Improved telecommunications supports multi-disciplinary and cooperative work group development teams. This shortens development time and ensures delivered systems will meet operational requirements. I-CASE tools improve the quality of delivered systems, ensure consistency and completeness of information throughout a project's life cycle, provide automated generation of applications codes from information contained within the project repository, and reduce the time required for testing. The small investment cost will substantially improve end user productivity, efficiency, and operational effectiveness; and reduce recurring support costs through the elimination and consolidation of duplicative software applications and databases.</p> <p>ARMY REUSE CENTER (ARC): The Army Reuse Center's mission is to ensure that DoD and Army objectives of reusable, maintainable, and reliable software are achieved. This is accomplished through the development, implementation, maintenance, and administration of a total reuse program supporting the entire software development cycle. FY 96/97 funding will be used to expand communications, hardware, and software to support the ARC's expanding Army user base. Emphasis will be placed on providing on line access to Software Development Centers, key support activities such as the Computer Science School, and selected PM's (e.g., SBA and RCAS). In addition to expanding the communication requirements, particular attention will be paid to expanding the user interface features such as expert systems and other Artificial Intelligence (AI) applications to assist the user in searching and analyzing the ARC's reusable components.</p>			
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REPORTS CONTROL SYMBOL DD-COMPIAR) 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE MACOM AUTOMATION SYSTEMS (BE4162)		
<p>(Continuation)</p> <p>LOUISIANA MANEUVERS Task Force Mission - to explore and assess emerging policy options related to the Army's ability to fulfill its U.S. Code Title 10 responsibilities; participate in joint and combined operations and exercises to support warfighting CINCs; and evaluate new weapon systems, equipment, and organizations through the use of simulations in a "fly before you buy" commitment. Louisiana Maneuvers Process brings Senior Army Leaders together four times a year at General Officers Working Group (GOWG) and Board of Directors (BOD) Meetings to discuss and investigate the most pressing issues facing the Army. LAM BOD will assign issues to proponents for examination. FY 96 funding will support the following projects. (1) Office Automation/Simulation Center. LAM-TF will acquire equipment and software to support mission requirements, effectively configure a simulation center and simulation/modeling requirements, and provide modernization and technological growth in the future. FY96/97 funds will upgrade and integrate simulation center devices to increase compatibility with other Army and joint agencies and enhance technological support within the Task Force. (2) Simulation/Modeling Tech Insertion. LAM will piggyback on existing tools, and thru modernization of these operational tools, use them as projection and "what if" environments. The tools are targeted for modernization and utilization due to collective global capacity to provide senior leadership of the Army a comprehensive visionary focus. Resources will be used to procure hardware, software, and connectivity to implement existing operational tools as enhanced and modernized versions to project the force structure and provide an operational evaluation and assessment of the warfighting impact across the continuum of the Army. Thru piggybacking on existing tools, and modernizing those tools to be "skunk works" applications, LAM will procure devices and applications that will be used to develop the force structure of the future and view the downsizing of the Force thru visionary lenses and integrated concepts. The following tools are targeted for modernization and utilization: FOCEGEN/FORCEFLO, SABRE, ATLAS, AMP Linkage, and DEEM.</p> <p>(ID CODE A)</p>			
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EXHIBIT (P-5)	A. APPROPRIATION/NO.			B. WEAPON MODEL/SERIES/POPULAR NAME			C. MANUF.		D. DATE		
	OPA 2 - Communications and Electronics Equipment			MACOM AUTOMATION SYSTEMS (BE4162)			Numerous See 5a.		February 1995		
	IDENT	FY 94		FY 95		FY 96		FY 97		Total Cost	
WEAPON SYSTEM COST ELEMENTS	CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Total Cost
MACOM AUTOMATION SYSTEMS:											
FORSCOM AUTOMATION	A	VAR	VAR	1,508	VAR	VAR	1,726	VAR	VAR	3,580	2,805
USAREUR AUTOMATION	A	VAR	VAR	557	VAR	VAR	474	VAR	VAR	1,286	886
TRADOC AUTOMATION	A	VAR	VAR	1,314	VAR	VAR	4,843	VAR	VAR	4,603	3,379
AMC AUTOMATION	A	VAR	VAR	0	VAR	VAR	1,337	VAR	VAR	3,152	2,760
MDW AUTOMATION	A	VAR	VAR	398	VAR	VAR	407	VAR	VAR	412	315
EUSA AUTOMATION	A	VAR	VAR	168	VAR	1	75	77	1	77	77
USARPAC AUTOMATION	A	VAR	VAR	399	VAR	VAR	192	VAR	VAR	389	389
USAREC AUTOMATION	A	VAR	VAR	270	VAR	VAR	401	VAR	VAR	512	729
USASIS AUTOMATION	A	VAR	VAR	888	VAR	VAR	1,541	VAR	VAR	1,535	1,022
AWC & INSCOM AUTOMATION	A	VAR	VAR	724	VAR	VAR	96	VAR	VAR	477	162
CIDC AUTOMATION	A	VAR	VAR	0	VAR	VAR	0	VAR	VAR	868	300
MEDICAL FACILITY LANS	A	VAR	VAR	0	VAR	VAR	0	VAR	VAR	800	800
TASA AUTOMATION (AFIS)	A	900	1	900	VAR	VAR	0	VAR	VAR	0	0
APPC AUTOMATION	A	VAR	VAR	0	VAR	VAR	0	VAR	VAR	761	300
SUBTOTAL				7,126			11,092			18,452	13,924
SMALL COMPUTER PROGRAM	A	VAR	VAR	378	VAR	VAR	250	VAR	VAR	287	264
ELECTRONIC COMMERCE	A	VAR	VAR	0	VAR	VAR	903	VAR	VAR	892	910
ARMY DATA MGT/STDs PROG	A	VAR	VAR	115	VAR	VAR	121	VAR	VAR	79	79
SOFTWARE ENVIRONMENT SPT	A	VAR	VAR	1,330	VAR	VAR	1,439	VAR	VAR	1,383	1,369
ARMY REUSE CENTER (ARC)	A	VAR	VAR	151	VAR	VAR	350	VAR	VAR	425	475
LAM AUTOMATION	A	VAR	VAR	0	VAR	VAR	840	VAR	VAR	941	774
TOTAL				9,100			14,995			22,459	17,795

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE
MACOM AUTOMATION SYSTEMS
(BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
FORSCOM AUTOMATION										
FY94	VAR *	C/FP	Ft McPherson, GA	Nov-93	Feb-94	VAR *	VAR *			
FY95	VAR *	C/FP	Ft McPherson, GA	Jan-95	Apr-95	VAR *	VAR *			
FY96		C/FP								
FORSCOM Cmd Data Base	DataCom	C/FP	Ft McPherson, GA	Oct-95	Jan-96	VAR *	VAR *	YES	NO	
Office Local Area Network	TBS	C/FP	VAR *	Nov-95	Feb-96	VAR *	VAR *	YES	NO	
FORSCOM Cmd & Control Net	NAWC	C/FP	Ft McPherson, GA	Nov-95	Jan-96	VAR *	VAR *	YES	NO	
FORSCOM Automation Modernization Effort										
FY97	TBS	C/FP	Ft McPherson, GA	Dec-95	Feb-96	VAR *	VAR *	YES	NO	
FORSCOM Cmd Data Base	DataCom	C/FP	Ft McPherson, GA	Oct-95	Jan-96	VAR *	VAR *	YES	NO	
Office Local Area Network	TBS	C/FP	VAR *	Nov-95	Feb-96	VAR *	VAR *	YES	NO	
FORSCOM Cmd & Control Net	NAWC	C/FP	Ft McPherson, GA	Nov-95	Jan-96	VAR *	VAR *	YES	NO	
FORSCOM Automation Modernization Effort	TBS	C/FP	Ft McPherson, GA	Dec-95	Feb-96	VAR *	VAR *	YES	NO	
USAREUR AUTOMATION										
FY94										
File Server	VAR *	C/FP	Frankfurt, Germany	Jun-94	Aug-94	VAR *	VAR *			
FY95										
File Server	VAR *	C/FP	Frankfurt, Germany	Nov-94	Jan-95	VAR *	VAR *			
FY96										
File Server	TBS	C/FP	Frankfurt, Germany	Nov-95	Jan-96	VAR *	VAR *	YES	NO	
FY97										
File Server	TBS	C/FP	Frankfurt, Germany	Nov-96	Jan-97	VAR *	VAR *	YES	NO	

REMARKS:

Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

NAWC - Naval Air Warfare Center

DataCom - Burr Ridge, IL

PRC - Planning Research Corp, Inc, Reston, VA.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE
MACOM AUTOMATION SYSTEMS
(BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
TRADOC AUTOMATION FY94										
TRADOC Integrated Multi-Media System (TIMS2)	Canon	C/FP	TRADOC	Mar-94	Jun-94	VAR *	1			
Distributed Training	VAR *	C/FP	TRADOC	VAR *	VAR *	VAR *	949			
Satellite Education Network to Compressed Digital Video (CD	AT&T	C/FP	Scott AFB	Jul-94	Jul-94	VAR *	221			
CASCOM Realignment	VAR *	C/FP	TRADOC	Sep-94	Nov-94	VAR *	8			
LAM ADPE	VAR *	C/FP	TRADOC	Sep-94	Oct-94	VAR *	135			
FY95										
Distance Learning	VAR *	C/FP	TRADOC	VAR *	VAR *	VAR *	VAR *			
Battle Labs	TBS	C/FP	TRADOC	VAR *	VAR *	VAR *	VAR *			
Desktop VTC	AT&T	C/FP	USARCCO	Nov-94	VAR *	VAR *	VAR *			
ROTC Automation	TBS	C/FP	TRADOC	VAR *	VAR *	VAR *	VAR *			
CASCOM Realignment	TBS	C/FP	TRADOC	VAR *	VAR *	VAR *	VAR *			
FY96										
Open Systems Environment	TBS	C/FP	TRADOC	Nov-95	Jan-96	VAR *	VAR *	YES	NO	
FY97										
Open Systems Environment	TBS	C/FP	TRADOC	Nov-96	Jan-97	VAR *	VAR *			
AMC AUTOMATION										
FY95										
Minicomputer Processor Syste	PRC	C/FP	CECOM	VAR *	VAR *	VAR *	VAR *			
Library System	CSDC	C/FP	DSSW	Feb-95	May-95	1	182			
FY96										
Electronic Mailroom	TBS	C/FP	DSSW	Feb-96	May-96	1	400	YES	NO	
Minicomputer Processor Syste	PRC	C/FP	VAR *	VAR *	VAR *	VAR *	VAR *	YES	NO	

REMARKS:

* Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

Canon - Lake Success, NY

AT&T - Greensboro, NC

PRC-Planning Reaserch Corp, Inc, Reston, VA.

CSDC - Computer Systems Development Corp, Chantilly, VA

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EXHIBIT P-5a

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

C. P-1 ITEM NOMENCLATURE
MACOM AUTOMATION SYSTEMS
(BE4162)

Other Procurement, Army 2 - Communications and Electronics Equipment

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Minicomputer Processor System	PRC	C/FP	VAR *	VAR *	VAR *	VAR *	VAR *	YES	NO	
Starmaster System	TBS	C/FP	CECOM	Jan-96	Mar-96	1	119	YES	NO	
UNIX Platform	PRC	C/FP	I&SA	Dec-95	Mar-96	1	207	YES	NO	
FY97										
Digitize HQ AMC with MSCs	TBS	C/FP	DSSW	Feb-97	May-97	1	480	YES	NO	
Minicomputer Processor System	PRC	C/FP	VAR *	Dec-96	Mar-97	VAR *	VAR *	YES	NO	
MDW AUTOMATION										
FY94 Life cycle replacement	VAR *	C/FP	DTS-W/Ft Ritchie	VAR *	VAR *	VAR *	VAR *			
FY95 Life cycle replacement	VAR *	C/FP	Local	VAR *	VAR *	VAR *	VAR *			
FY96 Life cycle replacement	TBS	C/FP	DOC, Ft Belvoir	Jan-96	VAR *	VAR *	VAR *	YES	NO	
Replacement of UNISYS 5000/	TBS	C/FP	DOC, Ft Belvoir	Jan-96	VAR *	VAR *	VAR *	YES	NO	
Job Information Kiosks	TBS	C/FP	DOC, Ft Belvoir	Jan-96	VAR *	VAR *	VAR *	YES	NO	
Network CD-ROM Reg Subscri	TBS	C/FP	DOC, Ft Belvoir	Jan-96	VAR *	VAR *	VAR *	YES	NO	
Library System	TBS	C/FP	DOC, Ft Belvoir	Jan-96	VAR *	VAR *	VAR *	YES	NO	
FY97 Life cycle replacement	TBS	C/FP	DOC, Ft Belvoir	Jan-97	VAR *	VAR *	VAR *	YES	NO	
EUSA AUTOMATION										
FY94 Life cycle replacement	EDS, PRC, Dolsh	C/FP	USACCK	VAR *	VAR *	VAR *	168			
FY95 Life cycle replacement	Korea Comm	C/FP	USACCK	Jan-95	Apr-95	1	75			
FY96 Life cycle replacement	EDS	C/FP	USACCK	VAR *	VAR *	VAR *	VAR *	YES	NO	
FY97 Life cycle replacement	TBS	C/FP	USACCK	VAR *	VAR *	VAR *	VAR *	YES	NO	
USARPAC AUTOMATION										
Departmental Local Area Net										
FY94	VAR *	C/FP	Ft Richardson DOC	VAR *	VAR *	VAR *	VAR *			

REMARKS:

Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

EDS - Plano, TX

UNISYS, McLean, VA

PRC-Planning Research Corp, Inc, Reston, VA.

Korea Comm - Seoul, Korea

Dolsh - Milpitas, CA

USACCK - US Army Central Contracting-Korea

MDW - Military District of Washington

Harris Corp - Melbourne, FL

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EXHIBIT P-5a

BUDGET PROGRAM ELEMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE
MACOM AUTOMATION SYSTEMS
(BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
FY95	VAR *	C/FP	Ft Richardson DOC	VAR *	VAR *	VAR *	VAR *			
FY96	VAR *	C/FP	Ft Richardson DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	
FY97	VAR *	C/FP	Ft Richardson DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	
USAREC AUTOMATION										
FY94										
Auto Attendant	Syntelle	C/FP	Ft Knox	Feb-94	Mar-94	1	35			
LAN System Upgrade	EDS	C/FP	Ft Knox	Dec-93	Mar-94	1	65			
Novell Software	Digital	C/FP	Naval AV Sup	Feb-94	Mar-94	1	49			
RDC Transition	Integrated C	C/FP	Lex Army Depot	Aug-94	Sep-94	1	47			
ARADS Patch	GTSI	C/FP	Lex Army Depot	Aug-94	Sep-94	1	27			
Recruiting 2000	Falcon Micro	C/FP	TRADOC	Aug-94	Sep-94	1	47			
FY95										
Remote Switch Unit	Halifax Eng	C/FP	Ft Knox	Nov-94	Dec-94	VAR *	VAR *			
Transition for RDC	Presidio Corp	C/FP	TRADOC	Dec-94	Dec-94	1	57			
FY96										
Futures Branch LAN	TBS	C/FP	Ft Knox	Jan-96	Apr-96	1	77	YES	NO	
Building 6580 Reuse	TBS	C/FP	Ft Knox	Jan-96	Apr-96	1	81	YES	NO	
USAREC-NET Testbed	TBS	C/FP	Ft Knox	Jan-96	Apr-96	1	209	YES	NO	
Dall-in remote Phase I	TBS	C/FP	Ft Knox	Jan-96	Apr-96	1	145	YES	NO	
FY97										
Life Cycle Replacement	TBS	C/FP	Ft Knox	Jan-97	Apr-97	1	251	YES	NO	
Dial-in remote Phase I	TBS	C/FP	Ft Knox	Jan-97	Apr-97	1	95	YES	NO	
Asynchronous Phase I	TBS	C/FP	Ft Knox	Jan-97	Apr-97	1	183	YES	NO	
Electronic Message Backbone	TBS	C/FP	Ft Knox	Jan-97	Apr-97	1	200	YES	NO	

REMARKS:

* Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

Syntelle - Bethesda, MD

EDS - Plano, TX

Digital Electronics Corp - Landover, MD

Integrated C - Frederick, MD

GTSI - Chantilly, VA

Falcon Micro - Landover, MD

Halifax Engineering - Alexandria, VA

Presidio Corp - Lanham, MD

HSFI - McLean, VA

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EXHIBIT P-5a

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

(BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
USASC AUTOMATION										
FY94 Life cycle replacement	VAR*	C/FP	ISC Contracting	VAR*	VAR*	VAR*	VAR*			
FY95 Life cycle replacement	VAR*	C/FP	ISC Contracting	VAR*	VAR*	VAR*	VAR*	YES	NO	
FY96 Life cycle replacement	VAR*	C/FP	ISC Contracting	VAR*	VAR*	VAR*	VAR*	YES	NO	
FY97 Life cycle replacement	VAR*	C/FP	ISC Contracting	VAR*	VAR*	VAR*	VAR*	YES	NO	
AWC AUTOMATION										
FY94										
Network Server	HSFI	C/FP	Ft Ritchie	Jul-94	Sep-94	1	146			
Network Integration	HSFI	C/FP	Carlisle Barracks	Apr-94	May-94	1	365			
INSCOM AUTOMATION										
FY94										
Fiber Optics LAN	GTE	C/FP	INSCOM	Apr-94	May-94	1	213			
FY95										
IRRATS Management System	TBS	C/FP	INSCOM	May-95	Jun-95	1	96	YES	NO	
FY96										
LAN - 513th MI Bde	TBS	C/FP	INSCOM	Apr-96	May-96	VAR*	VAR*	YES	NO	
Optical Disk	TBS	C/FP	INSCOM	Apr-96	May-96	VAR*	VAR*	YES	NO	
FY97										
LAN - 513th MI Bde	TBS	C/FP	INSCOM	Apr-97	May-97	VAR*	VAR*	YES	NO	
Optical Disk	TBS	C/FP	INSCOM	Apr-97	May-97	VAR*	VAR*	YES	NO	
CIDC AUTOMATION										
FY96										
AFIS Automation Upgrade	NEC	C/FP	Ft Gilliam DOC	Mar-96	May-96	VAR*	VAR*	YES	NO	

REMARKS:

Various: Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

GTE - Westlake Village, CA

NEC - Richardson, CA

PRC-Planning Research Corp, Inc, Reston, VA.

ISSAA-Information Systems Selection and Acquisition Agency.

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EXHIBIT P-5a

BUDGET PROGRAM ELEMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1985

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

MACOM AUTOMATION SYSTEMS (BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
EI Automation Upgrade FY97	PRC	C/FP	ISSC/DISD	Mar-96	May-96	VAR *	VAR *	YES	NO	
ACIRS Automation Upgrade	TBS	C/FP	DSSW/CECOM	Mar-97	May-97	VAR *	VAR *	YES	NO	
MEDICAL LANs FY96										
Communications Hardware Standard ADPE FY97	TBS	C/FP	ISSAA Ft Sam Houston	Jan-96	Mar-96	VAR *	VAR *	YES	NO	
Communications Hardware Standard ADPE	TBS	C/FP		Jan-96	Mar-96	VAR *	VAR *	YES	NO	
	TBS	C/FP	ISSAA	Jan-97	Mar-97	VAR *	VAR *	YES	NO	
	TBS	C/FP	Ft Sam Houston	Jan-97	Mar-97	VAR *	VAR *	YES	NO	
TASA AUTOMATION FY94	AFIS	MIPR	ISC	Mar-94	Jun-94	1	900			
APPC AUTOMATION FY96										
Warehouse Systems FY97	TBS	C/FP	USAPPC	VAR *	VAR *	VAR *	VAR *	YES	NO	
Warehouse Systems	TBS	C/FP	USAPPC	VAR *	VAR *	VAR *	VAR *	YES	NO	
SMALL COMPUTER PRGM Hardware & Software FY 94	UNISYS/PRC. Inc	C/FP/OPTION	CECOM	Jan-84	VAR *	VAR *	VAR *			

REMARKS:

* Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

DSSW - Defense Supply Service Washington

UNISYS, McLean, VA

PRC-Planning Research Corp, Inc, Reston, VA

ISSAA-Information Systems Selection and Acquisition Agency.

DISD - Document Image Support Directorate

ISSC - Information Systems Software Center

CECOM - Communications & Electronics Command

AFIS - Armed Forces Information Service

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EXHIBIT P-5a

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

MACOM AUTOMATION SYSTEMS (BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Small Computer Prog (Cont)										
FY 95	PRC	C/FP	CECOM/ISMA	Jan-95	VAR *	VAR *	VAR *	YES	NO	
FY 96	VAR *	C/FP	CECOM/ISMA	Jan-96	VAR *	VAR *	VAR *	YES	NO	
FY 97	VAR *	C/FP	CECOM/ISMA	Jan-97	VAR *	VAR *	VAR *	YES	NO	
ELECTRONIC COMMERCE:										
ADPE/Software/Comm Devices										
FY95	TBS	C/FP	ISSAA	Mar-95	Jun-95	VAR *	VAR *	YES	NO	
FY96	TBS	C/FP	ISSAA	Mar-96	Jun-96	VAR *	VAR *	YES	NO	
FY97	TBS	C/FP	ISSAA	Mar-97	Jun-97	VAR *	VAR *	YES	NO	
ARMY DATA MGMT & STANDARDS										
Hardware/Software Upgrades										
FY94:	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR	VAR *	VAR *	YES	NO	
FY95:	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR	VAR *	VAR *	YES	NO	
FY96:	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR	VAR *	VAR *	YES	NO	
FY97:	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR	VAR *	VAR *	YES	NO	
SOFTWARE ENVIRONMENT										
SUPPORT										
Hardware/Software upgrades										
FY94	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	
FY95	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	
FY96	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	
FY97	VAR *	C/FP	Ft Belvoir DOC	VAR *	VAR *	VAR *	VAR *	YES	NO	

REMARKS:

Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

CECOM - Communications & Electronics Command

ISMA - Information Systems Management Agency

PRC-Planning Research Corp, Inc, Reston, VA.

ISSAA-Information Systems Selection and Acquisition Agency.

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EXHIBIT P-5a

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE
MACOM AUTOMATION SYSTEMS
(BE4162)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACT BY	AWARD DATE	DATE OF FIRST LIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
ARMY REUSE CENTER (ARC)										
Reusable ADA Products for Information System Development (RAPID):										
HW/SW analyst tools:										
FY94	VAR*	C/FP	FT BELVOIR, DOC	VAR*	VAR*	VAR**	VAR**	YES	NO	
FY95	VAR*	C/FP	FT BELVOIR, DOC	VAR*	VAR*	VAR**	VAR**	YES	NO	
FY96	VAR*	C/FP	FT BELVOIR, DOC	VAR*	VAR*	VAR**	VAR**	YES	NO	
FY97	VAR*	C/FP	FT BELVOIR, DOC	VAR*	VAR*	VAR**	VAR**	YES	NO	
LOUISIANA MANEUVERS										
Simulation Center										
FY95	VAR***	C/FP	TCA	Feb-95	May-95	1	172			
Secure DSI Node				Feb-95	May-95	1	593			
Flying Carpet Suite										
FY96	SSDC/COLSA	MIPR/CFP/8A	TCA	Jan-96	Mar-96	1	540	YES	NO	
Upgrade				Jan-96	Jul-96	1	144	YES	NO	
Office Automation				Jan-97	Jul-97	1	500	YES	NO	
FY97	SSDC/COLSA	MIPR/CFP/8A	TCA	Apr-95	Jul-95	1	75	YES	NO	
LAM DIAS Data Base Equip										
FY95	TBS	C/FP	TCA	Jan-96	Jul-96	1	257	YES	NO	
Simulation/Modeling Tech				Jan-97	Jul-97	1	274	YES	NO	
Insertion Tool Modernization										
FY96	TBS	C/FP	TCA							
FY97	TBS	C/FP	TCA							

REMARKS:

* Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year. Quantities and unit costs vary by site and configuration.

*** UNICOR, Washington DC; RHC, Raymond Horizontal Carousels, New York, NY ; NSMA Arlington VA.; Strategic Space Defense Cmd (SSDC) Huntsville, AL
COLSA - Huntsville AL

TCA: TRADOC Contracting Activity

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EXHIBIT P-5a

REPORTS CONTROL SYMBOL DD-COM(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE LOGISTICS AUTOMATION SYSTEMS (BE4166)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (in Millions)	0.0	5.0	4.9	5.0	5.1	5.1	5.8	6.8	

DESCRIPTION: This budget line funds automation initiatives which support transportation, cargo movement, and resupply initiatives under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and resupply.

JUSTIFICATION:
 TRANSPORTATION COORDINATOR AUTOMATED COMMAND & CONTROL INFORMATION SYSTEM (TCACCIS). TCACCIS is a Defense Guidance (DG) compliance program which will support command and control by automating transportation functions to improve timeliness, accuracy, and availability of unit movement data from the unit through the Installation Transportation Office (ITO) and MACOMs to the joint deployment community. The system will automate transportation functions at 49 CONUS locations and 2 OCONUS theaters to comply with the DG. TCACCIS supports the Army's worldwide mission to perform peace/war-time unit deployment planning and execution of transportation functions. The system provides source data automation at the unit/installation level. The ITO will be the clearing house to transmit unit movement data to FORSCOM's COMPASS system for deployment planning and input into the Joint Deployment System (JDS)/ Joint Operational Planning and Execution System (JOPES). The ITO also will transmit unit movement requirements to MTMC's Automated System for Processing Unit Requirements (ASPU) and Air Mobility Command (AMC), as appropriate, for routing, port clearance, and input into JDS/JOPES. The Army's Automated Airload Planning System (AALPS) will be incorporated into TCACCIS as the air module prior to full system fielding on Army standard hardware in an open systems architecture that utilizes deployable hardware. TCACCIS has been identified by GAO and DAIG as a key element to resolve the Army's deployment planning/execution problems. The FY 96/97 funds are required for purchase of microcomputers to replace the existing obsolete Unisys computers. Maintenance for the Unisys computers will no longer be available. In addition, the old computers no longer meet performance requirements. The functional application has grown in size and the Unisys platform processing time is unacceptable to the user. These funds are also required for the purchase of deployable microcomputers to support the contingency and deployed corps. New microcomputers will be fielded at TCACCIS sites where Unisys computers are currently fielded. The deployable micros will be fielded to war fighters so that they will have the ability to deploy, further deploy, or redeploy from a theater of operations.

WORLDWIDE PORT SYSTEM (WPS): WPS is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and intranet visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provides movement control support to the Army's Strategic Mobility Program (ASMP), initiated as a result of lessons learned from Operation Desert Storm/ Shield and the Congressionally mandated Mobility Requirements Study (MRS). When fully fielded, WPS will support MTMC ocean terminals and US Navy port

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REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE LOGISTICS AUTOMATION SYSTEMS (BE4166)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	♦	♦	♦	♦	♦	♦	♦	♦	
(Continued:) activities worldwide, US Army Forces Command reserve component Transportation Terminal Units and active component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide intrast visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AIS that support the ocean terminal management and cargo documentation missions during peace and war. The replaced AIS include the obsolete Terminal Management System (TERMS) in CONUS, and the Department of the Army Standard Port System - Enhanced (DASPS-E), whose significant deficiencies were identified during Operation Desert Storm/ Shield. FY 96/97 funds will buy hardware and software to continue fielding of WPS to selected sites.									
(ID CODE A)									
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME LOGISTICS AUTOMATION SYSTEMS (BE4166)						C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94		Total Cost	FY 95		Total Cost	FY 96		Total Cost	FY 97		Total Cost
		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty		Unit Cost	Qty	
WEAPON SYSTEM COST ELEMENTS													
TRANSPORTATION COORDINATOR AUTOMATED COMMAND & CONTROL INFORMATION SYSTEM (TCACCIS) WORLDWIDE POST SYSTEM (WPS)	A	VAR	VAR	49	VAR	VAR	1,817	VAR	VAR	3,000	VAR	VAR	2,000
	A				VAR	VAR	3,166	VAR	VAR	1,930	VAR	VAR	3,038
TOTAL				49			4,983			4,930			5,038

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE LOGISTICS AUTOMATION SYSTEMS (BE4166)									
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
TRANSPORTATION COORDINATOR AUTOMATED COMMAND & CONTROL INFORMATION SYSTEM (TCACCIS)											
Hardware & Software											
FY94	Planning Research Corp.	IDIQ**	MTMC	APR 94	JUN 94	6	8				
FY95	Maclean, Va.	IDIQ**	MTMC	APR 95	JUN 95	25	73	YES	NO		
FY96	Planning Research Corp.	IDIQ**	MTMC	APR 96	JUN 96	VAR*	VAR*	YES	NO		
FY97	Maclean, Va.	IDIQ**	MTMC	APR 97	JUN 97	VAR*	VAR*				
WORLDWIDE PORT SYSTEM (WPS)											
Hardware & Software											
FY95	Planning Research Corp.	IDIQ**	MTMC	APR 95	JUN 95	VAR*	VAR*	YES	NO		
FY96	Maclean, Va.	IDIQ**	MTMC	APR 96	JUN 96	VAR*	VAR*	YES	NO		
FY97	Planning Research Corp.	IDIQ**	MTMC	APR 97	JUN 97	VAR*	VAR*				
D. Remarks:											
* Site specific. ** IDIQ -- Indefinite delivery, indefinite quantity contract.											

REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE MEDICAL AUTOMATION SYSTEMS (BE4163)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (In Millions)	1.2	1.6	1.9	1.8	0.0	0.0	0.0	0.0	

DESCRIPTION: These funds procure information systems for the Army Medical Command (MEDCOM). The MEDCOM systems support the clinical and health care management areas and use existing applications purchased on standard Army contracts. Funds will be used to procure new equipment and software, LANs, and to upgrade and replace existing systems at the Army medical treatment facilities. This program also supports the Army portion of the DOD-wide Defense Blood Support System (DBSS), which is a tactical automated blood management system. This system provides the capability to manage blood program operations such as collecting, manufacturing, testing, processing, freezing, storing, shipping, distributing, and issuing blood and blood products for infusion or destruction. DBSS will utilize a client/server architecture in accordance with the guidelines provided by the Military Health Services Systems (MHSS). The system will be used by deployable medical service elements, blood supply units, and Joint Blood Program Offices. Efficient/effective management of blood products within the theater is critical to sustainment of life of battlefield casualties. The DBSS allows deployed elements to manage, receive, store, ship, and track blood products/donors. The systems supports these functions by providing donor collection data (at either mobile and fixed sites), inventory control, management reporting, and transfusion services. DBSS facilitates post-transfusion follow-up and tracking of suspected/tainted blood supplies.

JUSTIFICATION: FY 96/97 funds will procure the hardware, software, and peripheral equipment for fielding of DBSS to deployable Army Medical Service units.

(ID CODE A)

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/TITLE/NO.			B. WEAPON MODEL/SERIES/POPULAR NAME			C. MANUF.		D. DATE	
	OPA 2 - Communications and Electronics Equipment			MEDICAL AUTOMATION SYSTEMS (BE4163)			Numerous See 5a.		February 1995	
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Total Cost
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	
HSC SYSTEMS	A	VAR	VAR	VAR	VAR	1,614				
AFIP SYSTEMS	A	VAR	VAR							
DEFENSE BLOOD SUPPORT SYSTEM (DBSS)	A							VAR	VAR	1,808
TOTAL						1,153				1,868
										1,808

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)							A. DATE February 1995			
APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE MEDICAL AUTOMATION SYSTEMS (BE4163)								
Other Procurement, Army 2 - Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
HSC SYSTEMS:										
Standard ADPE FY94 FY95	VAR** TBS	C/FP C/FP	Ft. Sam Houston Ft. Sam Houston	FEB 94 MAR 95	MAR 94 JUN 95	VAR * VAR *	VAR * VAR *	YES	NO	
Communications FY94 FY95	VAR** VAR**	C/FP C/FP	ISEC ISSAA	JAN 94 MAR 95	MAR 94 MAY 95	VAR * VAR *	VAR * VAR *	YES	NO	
AFIP:										
A PADIMIS/PADSTARS FY94	VAR**	C/FP	Walter Reed Army Medical Center	JAN 94	MAY 94	VAR *	VAR *			
LAN/DDA FY94	VAR**	C/FP	Walter Reed Army Medical Center	FEB 94	MAY 94	VAR *	VAR *			
DBSS HW / SW / COMM FY96 FY97	VAR** VAR**	C/FP C/FP	Ft. Sam Houston Ft. Sam Houston	MAR 96 MAR 97	OCT 96 OCT 97	VAR * VAR *	VAR * VAR *	YES	NO	
D. Remarks: ISSAA-Information Systems Selection & Acquisition Agency ISEC-Information Systems Engineering Command *System cost varied with size and configuration at each hospital. **GSA, Multiple contracts										

REPORTS CONTROL SYMBOL DD-COM(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions)	\$ 14.2	\$ 23.6	\$ 41.1	\$ 39.0	\$ 30.7	\$ 24.0	\$ 26.4	\$ 24.2
<p>DESCRIPTION: This budget line provides for the purchase of automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System Architecture and the Information Mission Area (IMA) Modernization Plan.</p> <p>JUSTIFICATION: ARMY CIVILIAN PERSONNEL SYSTEM (ACPERS): ACPERS processes civilian personnel data for over 400,000 civilians at over 148 Civilian Personnel Offices (CPOs) and Equal Employment Opportunity Offices (EEOOs) worldwide. Processing is centralized at the Operations Center managed by the Air Force at the Defense Information Processing Center (DIPC) in San Antonio, Texas. Equipment currently used by the CPOs and EEOOs was fielded in 1984 and has long since out-lived its lifecycle. The UNISYS 5000/70s which provide access to the ACPERS database are continually having problems which interrupt personnel action processing and retrieval of information from the database. Existing ACPERS equipment is proprietary in nature, no longer produced by the vendor, and incompatible with the DoD Open System Environment (OSE). FY 96/97 funding will be used to provide state-of-the-art OSE equipment at selective sites as approved by Army MAISRC in July, 1993.</p>								
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REPORTS CONTROL SYMBOL DD-COMP/ARI 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)		
<p>(Continuation)</p> <p>PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A)</p> <p>The Personnel Enterprise System-Automation (PES-A) is an ADP acquisition and redesign/implementation program which insures that an adequate, modern, top-of-the-system automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the War Fighter. The PES-A supports all five personnel functions, to include recruiting, and is key to execution of day-to-day operations within the Army (e.g. strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization). It is the vehicle by which personnel are managed and information is provided to the Department of Defense and, ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PERSCOM), Army Reserve Personnel Center (ARPERCEN), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Processing Command (MEPCOM) (a joint command for which the Army is the executive agent). It has been the cornerstone of the Army's personnel automation architecture since 1987 and has the flexibility/capability required to support emerging systems through the late 1990's and beyond. It fits into the Army Enterprise Strategy, supporting the Modernization of Power Projection Platforms. It is fully compatible with and supports DOD's Enterprise Strategy/Corporate Information Management Initiative and the Administration's Information Superhighway Initiative. FY 96/97 funding will buy automation infrastructure to support migration to open system architecture and user distributed processing under the Personnel Enterprise System.</p> <p>USMEPCOM JOINT COMPUTER CENTER (JCC) A memorandum of understanding between the Dept. of Defense and Selective Service System (SSS) formalized the establishment of the JCC where automatic data processing resources can be shared by USMEPCOM and SSS. The JCC mission includes the management and enhancement of shared resources, in full support of USMEPCOM and SSS peacetime and mobilization mission requirements. To provide the required mobilization manpower flow, USMEPCOM will process 4-5 times as many applicants into the armed services as they are currently processing. The current and out-years DASH growth rate for USMEPCOM and SSS is 20 gigabytes per year. This program includes actions to add additional storage control units with cache memory and to replace old type DASH technology with newer technology. FY 96/97 funds will purchase operating system software and hardware, to include additional DASH, communications controller, mainframe upgrade and technical refreshment, and Relational Data Base Management System software to support SSS and USMEPCOM mobilization and peacetime growth requirements.</p>			
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REPORTS CONTROL SYMBOL DD-COMP/ARI 1092		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)		
<p>(Continuation)</p> <p>US MILITARY ACADEMY (USMA) IMA MODERNIZATION</p> <p>The USMA is an accredited institution of higher learning. To maintain its accreditation standards and to instruct/prepare future Army Leaders to operate in the sophisticated high-tech world of modern warfare, it must employ in its classrooms/laboratories the latest technology/instructional tools available.</p> <p>Mini/microcomputers supporting the academic departments, must periodically be replaced as they become technologically obsolete or uneconomical to repair.</p> <p>FY 96/97 funds will procure equipment for replacement of the technological obsolete minicomputers at the Wargaming/Computer Aided System Engineering Labs. Additionally, funds will acquire high tech multi-media learning environments, procure digital imaging and photography technology, expanded library software, and upgrade the USMA wide area network.</p> <p>USMEPCOM INTEGRATED RESOURCE SYSTEM (MIRS)</p> <p>MIRS: The purpose of the US Military Enlistment Processing Command (USMEPCOM) Integrated Resource System (MIRS) is to provide the automation and communication capability for USMEPCOM to meet its peacetime and mobilization, wartime military manpower accession mission in the 1990s and beyond. The MIRS will be the cornerstone for a DOD-wide military accession system, incorporating the concept of electronic data sharing between USMEPCOM and the recruiting services, greatly reducing redundant data entry. It will replace the current Military Entrance Processing Reporting System (MEPRS), Automated Test Scoring System (ATS), Student Test Scoring System (STS) and other partially automated and manual procedures used in applicant processing. Replacing the saturated and obsolete systems at 66 Military Enlistment Processing Stations (MEPS) throughout the United States is vital to sustaining USMEPCOM's accession and data distribution mission. MIRS will accommodate DOD requirements for data capture and service connectivity.</p> <p>a. Maintenance. The minicomputer equipment in use at the MEPS has passed the end of its programmed life cycle, is based on obsolescent technology, is out of production, and will not be supported by the vendor for maintenance and technical support past FY 95. Spare parts must be cannibalized from excess equipment and are becoming increasingly difficult to obtain. The design and development efforts are on a time-critical path to replace the system before it is fully unsupportable.</p> <p>b. Connectivity. The Army is the only service with a connection to the existing equipment. The capability does not exist to connect any of the other services. By providing all of the services with electronic links to the MIRS system, we can eliminate the need for redundant data entry by the services, reduce data input errors, and provide the recruiters with more timely access to their applicant's data.</p> <p>c. Benefits. The validated MIRS economic Analysis showed \$11.9M in hard savings and \$64.6M of other quantifiable benefits we can achieve by replacing the current system. Once MIRS is fielded and the services' systems are connected we anticipate significant additional savings and benefits.</p> <p>The FY 96/97 funds will buy hardware, software, and peripherals equipment to continue phased fielding of MIRS to the MEPS. Procurement will be through the Sustaining Base Information Service (SBIS) contract awarded in June 1993.</p>				
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REPORTS CONTROL SYMBOL DD-COM(ARI) 1092	BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS	(BE4164)	
(Continuation)			
<p>DEFENSE CIVILIAN PERSONNEL DATA SYSTEM (DCPDS)/REGIONAL PERSONNEL CENTERS (RPC)</p> <p>The DCPDS/RPC program will support the standardization of business processes in the Civilian Personnel functional area and regionalization of Civilian Personnel Offices. DCPDS/RPC OPA expenditures provide automation infrastructure to support fielding of this DOD-wide system to Army activities receiving the DCPDS/RPC capability. Automation infrastructure fielded to Army activities will consist of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial Off the Shelf (COTS) software (operating system, DBMS, office automation, etc.) fielded to Army RPCs and subordinate Customer Support Units (CSUs). Army Automation infrastructure acquisitions will be compatible with the DOD DCPDS applications and integrate with the OSE architecture at Army's sustaining base sites. Procurement strategy calls for maximum use of existing contracts. The proposed architecture consists of data and process servers, user workstations, system peripherals, associated communications infrastructure and COTS software. FY 96/97 funds will procure automation infrastructure for four Army regions, and augment previously acquired systems.</p>			
<p>JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS)</p> <p>The JRISS program will support the standardization of business processes in the Military Enlisted Recruiting functional area. Army is the DOD lead agency for this automation initiative. JRISS OPA expenditures provide automation infrastructure to support development of software for the DOD-wide system, and for fielding to Army users. JRISS consists of OSE compliant automation infrastructure, COTS software (operating system, DBMS, office automation, etc.), with a limited amount of software development, fielded to service recruiters and supporting activities. Acquisitions will be accomplished by making use of existing Army and DOD-wide contracts. FY96 funds will buy developmental infrastructure, operational data/process servers, and desk top/portable workstations. FY97 funds will buy portable workstations.</p>			
(ID CODE A)			
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			A. APPROPRIATION/TITLE/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME PERSONNEL AUTOMATION SYSTEMS (BE4164)			C. MANUF. Numerous See 5a.		D. DATE February 1995				
WEAPON SYSTEM COST ELEMENTS			FY 94			FY 95			FY 96			FY 97			
			IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
ACPERs			A	VAR	VAR	3,796	VAR	VAR	576	VAR	VAR	651	VAR	VAR	2,966
Personnel Enterprise System-Automation (PES-A)			A	VAR	VAR	1,453	VAR	VAR	6,618	VAR	VAR	6,589	VAR	VAR	6,572
MEPCOM JCC			A	VAR	VAR	726	VAR	VAR	1,615	VAR	VAR	830	VAR	VAR	863
USMA Key Automation			A	VAR	VAR	2,262	VAR	VAR	2,235	VAR	VAR	2,483	VAR	VAR	2,483
MEPCOM Interactive Resource System (MIRS)			A	VAR	VAR	5,982	VAR	VAR	8,596	VAR	VAR	3,299	VAR	VAR	352
Defense Civilian Personnel Data System (DCPDS)/Regional Personnel Centers (RPC)			A				VAR	VAR	3,970	VAR	VAR	8,444	VAR	VAR	4,172
Joint Recruiting Information Support System (JRISS)			A							VAR	VAR	18,775	VAR	VAR	21,556
TOTAL						14,219			23,610			41,071			38,964

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)						
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
ACPRS:										
Hardware, Software & Peripherals										
FY94	VAR***	C/FPM*	AF/Ft. Belvoir	VAR**	VAR**	VAR**	VAR**			
FY95	VAR***	C/FPM*	AF/Ft. Belvoir	VAR**	VAR**	VAR**	VAR**	YES	NO	
FY96	VAR***	C/FPM*	AF/Ft. Belvoir	VAR**	VAR**	VAR**	VAR**	YES	NO	
FY97	VAR***	C/FPM*	AF/Ft. Belvoir	VAR**	VAR**	VAR**	VAR**			
Personnel Enterprise System-Automation:										
Distributed Processing & Peripherals										
FY94	Electronic Data Sys. Herndon, Va.	C/FPM-9(6)	ISSAA	JUL 94	SEP 94	VAR**	VAR**			
FY95		C/FPM-9(7)	ISSAA	MAR 95	OCT 95	VAR**	VAR**	YES	NO	
FY96	Electronic Data Sys. Herndon, Va.	C/FPM-9(8)	ISSAA	MAR 96	OCT 96	VAR**	VAR**	YES	NO	
FY97		C/FPM-9(9)	ISSAA	MAR 97	OCT 97	VAR**	VAR**			
MEPCOM JCC:										
Central Processing Unit										
FY94	Computer Sales International, St. Clair, Mi.	C/FP	FORSCOM	JAN 94	MAY 94	1	726			

D. Remarks: ISSAA-Information Systems Selection & Acquisition Agency

*Contract has option provision for an additional 12 years.

**Qty & unit cost vary by site & location requirements.

***GTSI, Chantilly, Va.; AT&T, Greensboro, NC.; SMC, Hauppauge, NY.; Anixter Bros., Chantilly, Va.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

PERSONNEL AUTOMATION SYSTEMS

(BE4164)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
MEPCOM JCC (Continued):										
Direct Access Storage Device										
FY95	TBS	C/FP	Rock Island	MAR 95	APR 95	1	600	YES	NO	
FY96	TBS	C/FP	Rock Island	FEB 96	MAR 96	1	300	YES	NO	
FY97	TBS	C/FP	Rock Island	FEB 97	MAR 97	1	200			
Mainframe Operating System Software										
FY95	TBS	C/FP	Rock Island	MAR 95	APR 95	1	900	YES	NO	
Central Processing Unit (Mainframe) Technology Refreshment										
FY95	TBS	C/FP	FORSCOM	MAR 95	APR 95	1	115	YES	NO	
FY96	TBS	C/FP	FORSCOM	MAR 96	APR 96	1	330	YES	NO	
FY97	TBS	C/FP	FORSCOM	MAR 97	APR 97	1	663			
Front End Processor Upgrade										
FY96	TBS	C/FP	Rock Island	FEB 96	MAR 96	1	200	YES	NO	
USMA Key Automation:										
Upgrade Host Minis										
FY97	TBS	C/FP	US Military Academy	JAN97	MAR 97	8	50			

D. Remarks:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)												A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)									
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL			
USMA Key Automation (Continued):													
Minicomputers for Installation Support													
FY95	Sun Computers TBS TBS	C/FP	US Military Academy	JAN 95	MAR 95	4	78						
FY96		C/FP	US Military Academy	JAN 96	MAR 96	4	75	YES	NO				
FY97		C/FP	US Military Academy	JAN 97	MAR 97	5	70						
Lab System Upgrades													
FY94	VAR* TBS TBS TBS	C/FP	US Military Academy	MAR 94	APR 94	1	581						
FY95		C/FP	US Military Academy	MAR 95	APR 95	1	851	YES	NO				
FY96		C/FP	US Military Academy	MAR 96	APR 96	1	850	YES	NO				
FY97		C/FP	US Military Academy	MAR 97	APR 97	1	300						
Library System & Upgrades													
FY94	VAR* Kestral, Arlington, Va. TBS TBS	C/FP	US Navy	MAR 94	JUL 94	1	655						
FY95		C/FP	US Navy	FEB 95	MAR 95	1	53	YES	NO				
FY96		C/FP	US Navy	JAN 96	MAR 96	2	50	YES	NO				
FY97		C/FP	US Navy	NOV 96	DEC 96	2	50						
Academy Minicomputers													
FY94	Sylvest Mgmt. Sys. TBS TBS	C/FP	US Military Academy	JUN 94	JUL 94	VAR**	VAR**						
FY95		C/FP	US Military Academy	FEB 95	MAR 95	16	12	YES	NO				
FY97		C/FP	US Military Academy	JAN 97	MAR 97	5	100						

D. Remarks:

*Electronic Data Sys., Plano, Tx.; Cintronix Microage, Annapolis, Md.; Matrox International Corp., Edison, N.J.; Unisource, Williamsville, NY.

Sun Computers, Mountain View, CA
Sylvest Mgmt Systems, Lanham, Md.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE				A. DATE				
Other Procurement, Army 2 - Communications and Electronics Equipment		PERSONNEL AUTOMATION SYSTEMS (BE4164)				February 1995				
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
USMA Key Automation (Continued):										
High Tech Classroom Conversion	VAR*	C/FP	US Military Academy	JAN 95	MAR 95	5	21			
FY95	TBS	C/FP	US Military Academy	JAN 96	MAR 96	5	50	YES	NO	
FY96	TBS	C/FP	US Military Academy	JAN 97	MAR 97	4	50			
Remote Switching Modules/B Routers	Halifax, Alexandria, Va.	C/FP	US Military Academy	MAR 94	MAY 94	1	709			
FY94	Applied Info Serv.	C/FP	US Military Academy	JAN 95	MAR 95	3	57			
FY95	TBS	C/FP	US Military Academy	JAN 96	MAR 96	5	70	YES	NO	
FY96	TBS	C/FP	US Military Academy	JAN 97	MAR 97	4	50			
Digital Imaging and Photography System	Computer Science Dev	C/FP	CECOM	JAN 95	MAR 95	1	401			
FY95	TBS	C/FP	US Military Academy	JAN 96	MAR 96	1	450	YES	NO	
FY96	TBS	C/FP	US Military Academy	JAN 97	MAR 97	1	450			
FY97										
D. Remarks: Applied Information Serv., Summerset, N.J.										

*Electronic Data Sys., Plano, Tx.; Cintronix Microage, Annapolis, Md.; Matrox International Corp., Edison, N.J.; Unisource, Williamsville, NY.

Applied Information Serv., Summerset, N.J.
Computer Science Development Corp., Chantilly, VA

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

G. P-1 ITEM NOMENCLATURE

PERSONNEL AUTOMATION SYSTEMS (BE4164)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
MEPCOM INTERACTIVE RESOURCE SYSTEM										
Minicomputers/peripherals/software										
FY94	Loral Federal Sys.	C/FP	ISSAA	JUN 94	JUL 94	19	315			
FY95	Bethesda, Md.	C/FP	ISSAA	APR 95	JUL 95	24	325	YES	NO	
FY96	Loral Federal Sys.	C/FP	ISSAA	APR 96	JUL 96	3	333	YES	NO	
FY97	Bethesda, Md.	C/FP	ISSAA	APR 97	JUL 97	1	292			
DCPDS/RPC										
Regional Process/Data Servers										
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	2	245	YES	NO	
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	4	245	YES	NO	
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	2	245			
Regional Communications Infrastructure										
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	2	150	YES	NO	
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	4	150	YES	NO	
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	2	150			

D. Remarks: ISSAA-Information Systems Selection & Acquisition Agency

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
DCPDS/RPC:											
Customer Support Unit Process/Data Servers											
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	15	72	YES	NO		
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	34	72	YES	NO		
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	16	72				
Customer Support Unit Communications Infrastructure											
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	1	378	YES	NO		
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	1	953	YES	NO		
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	1	510				
User Workstations											
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	125	4	YES	NO		
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	500	4	YES	NO		
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	260	4				
System Peripherals											
FY95	Loral Federal Sys.	C/FP	ISSAA	JUN 95	AUG 95	VAR	VAR	YES	NO		
FY96	Bethesda, Md.	C/FP	ISSAA	MAY 96	JUL 96	VAR	VAR	YES	NO		
FY97	Loral Federal Sys.	C/FP	ISSAA	JAN 97	MAR 97	VAR	VAR				
D. Remarks: ISSAA-Information Systems Selection & Acquisition Agency VAR-Qty & unit cost will vary with configuration											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE
February 1995

APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE PERSONNEL AUTOMATION SYSTEMS (BE4164)					SPEC			IF YES, WHEN AVAIL	
Other Procurement, Army 2 - Communications and Electronics Equipment							AVAIL NOW	REVIS REQ'D			
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST				
JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS)											
Developmental Infrastructure FY96 FY97	Loral Federal Sys. Bethesda, Md.	C/FP C/FP	ISSAA ISSAA	MAY 96 JAN 97	JUL 96 MAR 97	1 1	120 150	YES NO			
Large Process/Data Servers FY96	Loral Federal Sys.	C/FP	ISSAA	MAY 96	JUL 96	10	325	YES	NO		
Brigade LANS FY96	Loral Federal Sys.	C/FP	ISSAA	MAY 96	JUL 96	4	80	YES	NO		
JRISS Components FY96 FY97	Loral Federal Sys. Bethesda, Md.	C/FP C/FP	ISSAA ISSAA	MAY 96 JAN 97	JUL 96 MAR 97	VAR VAR	VAR VAR	YES NO			

D. Remarks:

VAR-Qty & unit cost will vary with configuration
JRISS components include servers, Battalion LANS, high speed printers & workstations.

REPORTS CONTROL SYMBOL		BUDGET ITEM JUSTIFICATION SHEET							DATE
DD-COMP(AR) 1092									February 1995
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
Other Procurement, Army 2 - Communications and Electronics Equipment		HIGH PERFORMANCE COMPUTING (BE4152)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (In Millions)	\$	0.0	\$	\$	\$	\$	\$	\$	\$
			0.5	0.5	0.5	0.5	0.5	0.5	0.5

DESCRIPTION:

This program satisfies critical needs for advanced computational technology for Army scientists, engineers and analysts, and represents the leading edge of high speed processing. This capability is not available through other technology and is designed to solve problems which cannot be solved in other ways. The program provides for an Army-Wide Supercomputing resource consisting of networked Supercomputers at various CONUS locations.

JUSTIFICATION:

Supercomputer systems are required to satisfy critical research and development missions in combat and material development programs. Significant advances in supercomputer technology have provided increases in both speed and memory. This is essential for performing fully time dependent, three dimensional computations and simulations directed at major new weapon designs or battlefield management. The resultant use of this advanced high performance computing technology is the generation of very large data sets. In order to effectively and efficiently process this data, robotic mass storage systems are required. Examples of the major Army applications best suited to supercomputer technology include battlefield management, modeling/simulation, weapons systems design, terrain analysis, mechanical design (structural and dynamic vehicles), nuclear survivability, and material dynamics and composition. Supercomputers are contributing to efforts for high leverage, high payoff programs which exploit technological advances, reduce logistics burden, lower acquisition and O&M costs, and provide required lethality at reduced weight and volume.

FY 96 funds will be used to purchase a robotic mass storage upgrade for Army Research Lab (ARL), Aberdeen Proving Ground. FY 97 funds will be used to increase system input/output capability for ARL through a technological change. Growth in file sizes and requirements for additional storage have created inefficiencies due to lack of necessary supporting peripherals. Funds will leverage assets being procured through the DoD High Performance Computing (HPC) modernization program and capitalize on leading edge technology in multi-terabyte mass storage systems.

(ID CODE A)

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment	B. WEAPON MODEL/SERIES/POPULAR NAME HIGH PERFORMANCE COMPUTING (BE4152)						C. MANUF. Numerous See 5a.	D. DATE February 1995				
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94			FY 95			FY 96		FY 97			
		Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Mass Storage Upgrade	A				464	1	464						
Robotic Mass Storage Upgrade	A							461	1	461			
I/O Technology Upgrade	A										458	1	458
TOTAL				0			464						458

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE HIGH PERFORMANCE COMPUTING (BE4152)							
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Mass Storage upgrade FY95	GMSI **	C/FP	ARL *	Jan-95	Feb-95	1	464				
Robotic mass storage upgrade FY96	TBS	C/FP	ARL *	Jan-96	Mar-96	1	461	YES	NO		
I/O Technology Upgrade FY97	TBS	C/FP	ARL *	Jan-97	Mar-97	1	458	YES	NO		

REMARKS:
* Army Research Laboratory.
** GMSI Global Management Systems Inc., Bethesda, MD

DD Form 2446-1, JUL 87	P-1 Shopping List Item No. 92	Page No. 3 of 3	EXHIBIT P-5a
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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1986

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, ARMY 2
COMMUNICATIONS AND ELECTRONICS EQUIPMENT

P-1 ITEM NOMENCLATURE
RESERVE COMPONENT AUTOMATION SYSTEM (RCAS)
SSN: BE4167

COST	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
(\$ M)	184.6	163.6	83.2	25.4	51.2	43.2	22.6	22.8

DESCRIPTION: The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively mobilize and deploy Army Guard and Reserve forces. The RCAS will link over 8,000 Guard and Reserve units at over 4,754 locations. The system will link the units with their mobilization stations and higher headquarters; supply current readiness data on the units and individual ready reserve; and provide information management at the mobilization station to prepare for deployment. The RCAS is being developed and fielded through procedures outlined in OMB Circular A-109. The acquisition strategy is in three stages:

- Phase I - Validation of Design (Competitive Demo - FY 91)
- Phase II - Fielding Critical Elements
- Phase III - Fielding the Remainder of the System and Sustainment

The RCAS received Milestone I approval in September 1989 and Milestone II in November 1991. A revised baseline and associated funding requirement is currently in staffing which describes completion of fielding system hardware, commercial-off-the-shelf (COTS) software, and the development of critical elements of application software in FY 1998.

JUSTIFICATION: In FY96 the program will continue to procure and field hardware and COTS software at a reduced rate as compared to previous years. The program will also continue to develop applications software. In addition, training and the Help Desk will continue as the program is fielded. In FY97 the current funding supports a minimal development effort for software, and basic system functions such as the Help Desk and the Systems Operations Center, but no new fielding starts.

Over fifty percent of the Army's force structure is in the Reserve Components. The existing information systems in the Reserve Components are not integrated, are limited in scope, and require excessive time to complete functions. This requires time to be spent on administrative functions that could be used for operational training. The RCAS will provide an integrated system that will ensure current, readily available data to feed the mobilization requirement. The fielding for the RCAS began with limited user testing and site preparation. Fielding of the "critical elements" began in FY93. As of Dec 94 over 1,600 units have been fielded with hardware and commercial off-the-shelf software.

Identification Code: A

INFORMATION MANAGEMENT COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION / NO. OPA 2 - COMMUNICATIONS ELECTRONICS EQUIPMENT SSN: BE4167		B. INFO MGMT NAME: RESERVE COMPONENT AUTOMATION SYSTEM (RCAS)		C. MANUF : BOEING VIENNA, VA		D. DATE : February 1995						
INFORMATION MANAGEMENT COST ELMENTS		IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 94			FY 95			FY 96			FY 97		
			UNIT COST	QTY	TOTAL COST	UNIT COST	QTY	TOTAL COST	UNIT COST	QTY	TOTAL COST	UNIT COST	QTY	TOTAL COST
Hardware/COTS SW		A		1	75,837		1	63,357		1	10,551		0	0
Software Development				1	22,154		1	23,717		1	23,961		1	3,810
System Integration				1	10,722		1	11,032		1	8,130		1	1,430
Training				1	2,344		1	1,973		1	365		1	198
Fielding				1	44,720		1	37,982		1	17,409		1	9,184
Program Management				1	14,460		1	13,829		1	14,787		1	2,361
Help Desk				1	2,817		1	3,625		1	3,239		1	3,239
Other - Award Fee, CDRL's, System Warranty, Proposal Prep				1	11,573		1	7,987		1	4,732		1	5,199
TOTAL				184,627			163,482			83,174			25,421	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 6A)										A. DATE: February 1995	
B. APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT				C. P-1 ITEM NOMENCLATURE RESERVE COMPONENT AUTOMATION SYSTEM (RCAS) SSN: BE4167							
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	EFFECTS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 93	BIS *	OPTION	ISSAA	**	OCT 92	1		YES	NO		
FY 94	BIS	OPTION	ISSAA	**	OCT 93	1		YES	NO		
FY 95	BIS	OPTION	ISSAA	**	OCT 94	1		YES	NO		
FY 96	BIS	OPTION	ISSAA	**	OCT 95	1		YES	NO		
FY 97	BIS	OPTION	ISSAA	**	OCT 96	1		YES	NO		
D. Remarks :											
oo * Boeing Information Service (BIS), Vienna, VA.											
oo The RCAS is a "turn key" system, and as such, is viewed as one system. The quantity therefore is one.											
oo Source Selection for Phase II (Development & Deployment) completed 4th Qtr, FY 91.											
oo ** Contract awarded to Boeing Information Services in accordance with OMB Circular A-109 on an annual option basis to the original contract awarded Oct 91.											

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE AFRTS (BZ8480)						
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
\$	3.4	3.0	2.6	\$	\$	\$	\$	\$
COST (In Millions)				0.4	0.5	0.5	0.5	0.5
<p>DESCRIPTION:</p> <p>The Army Broadcasting Service (ABS) is the DoD Executive Agent for the Army's Armed Forces Radio and Television Service (AFRTS) operations. AFRTS provides overseas CINCs with radio and television mass communications during normal and emergency/contingency/wartime operations in accordance with DoD Directive 5122.10, and serves DoD personnel overseas with American language news, command information and entertainment programming. Geographical areas served by Army AFRTS facilities are central and northern Europe, including Germany, England and Scotland; Italy, Spain, and the Middle East, including the Sinai and Saudi Arabia; Korea, Central and South America, and the Marshall Islands. Four Army radio and television networks, consisting of approximately 600 radio and television facilities, broadcast continuous 24 hour programming to nearly 500,000 soldiers, sailors, airmen, marines, DoD civilians and their families worldwide. AFRTS is the only mass communications available to overseas commanders to communicate time-sensitive emergency health/welfare announcements, command information and news. Overseas wartime operational CINCs consider AFRTS a battlefield support function that is essential in maintaining and enhancing the morale, readiness, and well-being of overseas troops, DoD personnel and their families. Overseas availability of the AFRTS communications service has become increasingly important to disseminate timely information as the Army downsizes and shifts resources in support of contingency, peace keeping and wartime operations such as Desert Shield/Storm and Operations Just Cause, Restore Hope and Provide Promise. Congress mandates that AFRTS provide the same type of radio and television service to personnel overseas which is available to American citizens in the United States.</p> <p>JUSTIFICATION:</p> <p>FY 96/97 funds will purchase commercial, off-the-shelf (COTS) audio and video recording/editing/playback systems, studio control/monitor/switching systems, radio and television broadcast transmitters, audio/video amplifiers/processors and associated test, measurement, and diagnostic equipment (TMDE). Equipment purchased supports fixed and full spectrum contingency operations, such as Desert Storm, Operation Deny Flight, Operation Support Hope (Rwanda, Uganda, Zaire), PREPO AFLOAT, Joint Task Force Bravo (Honduras), Zagreb and Macedonia, to ensure warfighting CINCs have required AFRTS broadcast resources to execute wartime and contingency/emergency information needs. In addition to a Health, Safety and Quality of Life issue, "Observations and Lessons Learned, Operation Desert Storm" validated ARMY AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS through its primary mission of command information serves as a conduit for the battlefield commander in the "Information War" (IW). The "mass communications" mission of AFRTS is not duplicated by the strategic communication mission of Army, or other services, and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE), troop strength reductions in Korea, and overseas base closures have been considered, and are factored into the items required to sustain the basic broadcast capability to remaining forces.</p>								
(ID CODE A)		P-1 Shopping List Item No. 94		Page No. 1 OF 3		EXHIBIT P-40		
DD Form 2454								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME AFRTS (BZ8480)			C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97		
			Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Armed Forces Network Europe											
Replacement Equipment		A	VAR	VAR	1,240	VAR	VAR	1,585	VAR	VAR	1,444
System Expansion		A	VAR	VAR	298	VAR	VAR	0	VAR	VAR	0
New Equipment		A	VAR	VAR	0	VAR	VAR	59	VAR	VAR	120
American Forces Korea Network											
Replacement Equipment		A	VAR	VAR	1,325	VAR	VAR	598	VAR	VAR	623
System Expansion		A	VAR	VAR	90	VAR	VAR	0	VAR	VAR	0
New Equipment		A	VAR	VAR	0	VAR	VAR	83	VAR	VAR	0
Southern Command Network											
Replacement Equipment		A	VAR	VAR	336	VAR	VAR	428	VAR	VAR	329
System Expansion		A	VAR	VAR	52	VAR	VAR	0	VAR	VAR	0
New Equipment		A	VAR	VAR	0	VAR	VAR	154	VAR	VAR	0
Central Pacific Network											
Replacement Equipment		A	VAR	VAR	28	VAR	VAR	65	VAR	VAR	70
System Expansion		A	VAR	VAR	0	VAR	VAR	0	VAR	VAR	0
New Equipment		A	VAR	VAR	0	VAR	VAR	0	VAR	VAR	0
TOTAL					3,369			2,972			2,586
											373

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
B. APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment										C. P-1 ITEM NOMENCLATURE (BZ8480)	
LINE ITEM / FISCAL YEAR	CONTRACTO	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
TV Transmission Equip & Accessories											
FY 94	VAR	C/FP	SAAD*	VAR	VAR	VAR	VAR	YES	NO		
FY 95	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 96	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 97	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
Radio Trans. Equip. & Accessories											
FY 94	VAR	C/FP	SAAD*	VAR	VAR	VAR	VAR	YES	NO		
FY 95	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 96	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 97	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
TV Studio & Production Equipment											
FY 94	VAR	C/FP	SAAD*	VAR	VAR	VAR	VAR	YES	NO		
FY 95	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 96	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 97	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
Radio Studio and Production Equipment											
FY 94	VAR	C/FP	SAAD*	VAR	VAR	VAR	VAR	YES	NO		
FY 95	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 96	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
FY 97	VAR	C/FP	T-ASA**	VAR	VAR	VAR	VAR	YES	NO		
REMARKS:											
*Sacramento Army Depot - SAAD											
** Television-Audio Support Activity - T-ASA											
Equipment items are grouped into bulk buy contracts, therefore, the number of contracts and the number of items do not correspond. The list of contractors is too voluminous to address all of them on this form.											
DD Form 2446-1, JUL 87										EXHIBIT P-5a	
P-1 Shopping List Item No. 94										Page No. 3 of 3	

REPORTS CONTROL SYMBOL DD-COMP/ARI 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2M (A/V) (BK5289)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (in Millions)	\$ 6.0	\$ 3.8	\$ 5.1	\$ 2.9	\$ 3.4	\$ 3.5	\$ 10.3	\$ 11.0	
<p>DESCRIPTION: This budget line buys commercial Visual Information (VI) systems costing from \$50 thousand to \$2 million each in support of DOD and Army mission requirements. Army Commanders, Joint Chiefs of Staff and Unified Commanders, along with their staff, use graphics, still photography, film productions, and presentation systems to convey and clarify information for command, control, intelligence, training, recruitment, health care, procurement, readiness maintenance, operational planning and documentation. This equipment provides commanders with video, photography, audio, and computer generated media which can be integrated to convey real-time, two way information up and down the chain of command. Total VI requirements exceed \$25 million annually.</p> <p>All equipment has been approved for purchase through the Army Information Mission Area (IMA) Requirements Statement (RS) process and included in the Visual Information Systems Program (VISP). The VISP Program is the only means for commanders to procure, replace, or augment their VI investment systems and equipment. The equipment in the VISP has been reviewed and prioritized, both by the major command (MACOM), and Headquarters, Department of Army (HQDA), Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4) "Obtain a family of information systems to meet the needs of all disciplines in the Information Mission Area developed in the context of approved information models and architecture". Funds will purchase equipment to support commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff (OJCS), Office of the Secretary of Defense (OSD), other government agencies in the National Capital Region, as well as, the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training. Visual Information Center is designated by policy regulated by DoD Directive 5040.2 and AR 25-1 as Joint Visual Information Service (JVIS).</p> <p>JUSTIFICATION: FY 96/97 funds provide VI equipment for CONUS, Korea, Japan, Europe, Southern Command (SOUTHCOM), and US Army Pacific (USARPAC). [The equipment to be purchased is listed in the associated FY VISP program.</p>									
(ID CODE A)		P-1 Shopping List Item No. 95		Page No. 1 OF 3		EXHIBIT P-40			
DD Form 2454									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/NO. OPA 2 - Communications and Electronics Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2M (A/V)				C. MANUF. Numerous See 5a.		D. DATE February 1995	
	IDENT CODE	FY 94 Unit Cost Qty	Total Cost	FY 95 Unit Cost Qty	Total Cost	FY 96 Unit Cost Qty	Total Cost	FY 97 Unit Cost Qty	Total Cost	
WEAPON SYSTEM COST ELEMENTS Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.	A	VAR	6,020	VAR	3,822	VAR	5,102	VAR	2,850	
TOTAL			6,020		3,822		5,102		2,850	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE	
B. APPROPRIATION / BUDGET ACTIVITY										February 1995	
C. P-1 ITEM NOMENCLATURE										(BK5289)	
Other Procurement, Army 2 - Communications and Electronics Equipment										ITEMS LESS THAN \$2M (A/V)	
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Various VI Equipment*											
FY 94	VAR*	C/FP	T-ASA	VAR*	VAR*	VAR*	VAR*	YES	NO		
FY 95	VAR*	C/FP	T-ASA	VAR*	VAR*	VAR*	VAR*	YES	NO		
FY 96	VAR*	C/FP	T-ASA	VAR*	VAR*	VAR*	VAR*				
FY 97	VAR*	C/FP	T-ASA	VAR*	VAR*	VAR*	VAR*				

REMARKS:

The various items of Visual Information (VI) equipment are listed in the Visual Information System Program (VISIP) for the year indicated. Because some equipment items are grouped into a bulk buy contract, the number of contracts and the number of items do not correspond.

Television-Audio Support Activity (T-ASA)

UNCLASSIFIED										DATE:	
BUDGET ITEM JUSTIFICATION SHEET										February 1995	
REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092											
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (BZ5269)									
		FY94		FY95		FY96		FY97		FY98	
										FY99	
										FY00	
										FY01	
QUANTITY											
COST (IN MILLIONS)		14.7		10.3		11.5		11.6		8.7	
										25.7	
<p>DESCRIPTION: Calibration Sets Equipment comprises calibration standards (hardware), accessories, and repair equipment required to perform the Army-wide test, measurement, and diagnostic equipment (TMDE) calibration and repair mission. This equipment provides for accuracy verification of TMDE by maintaining legal traceability to standards established and maintained by the U.S. National Institute of Standards and Technology. The AN/GSM-286 and AN/GSM-287 Calibration Sets and the Reference Calibration Sets are an integral part of the Army calibration system and are used by direct support/general support maintenance units worldwide. This program supports the TMDE required to assure the operability, accuracy, and effectiveness of the Army's weapons systems.</p> <p>JUSTIFICATION: The Calibration Sets Equipment funding provides for the replacement of obsolete and worn-out calibration equipment and for procurement of state-of-the-art equipment required to support new and technologically advanced weapons systems such as the Multiple Launch Rocket System (MLRS), Apache, Bradley Fighting Vehicle, and Patriot. The calibration equipment is required to ensure the Army's weapons systems are maintained in the proper state of readiness.</p> <p>The FY96 funds will provide for replacement of the current inventory of pneumatic pressure standards which were custom built for the Army 12 years ago. The commercial replacement will be much easier and less expensive to maintain. High frequency generators will be procured in FY96 to augment the generators used in the signal generator workstation. The augmentation will enable TMDE maintenance units to meet requirements that are continually backlogged because of the demands on the available equipment when the signal generator workstations are in operation. Alternating current standards and voltage/current amplifiers will be procured in FY96 to replace ageing equipment which is extremely difficult and expensive to maintain because spare parts are no longer available on the market. Calibration activities will gain the capability to perform off-line calibration and repair of the Integrated Family of Test Equipment digital multimeter and three-function virtual instrument cards through procurement of the VXI input/output bus. The gage block comparator and pressure calibration systems will provide capability for automated calibration and result in reduced manpower expenditures. The pressure calibration system allows for batch reference level calibrations of pneumatic and hydraulic pressure standards and significantly reduces the total calibration time for these items.</p> <p>The FY97 funds will be used to replace the current signal generator workstations with VXI-based equipment. The existing equipment is obsolete and difficult to maintain because spare parts are no longer available. The signal generator workstation is the crucial link of calibration traceability for all Army radar and communications systems. Expanded bandwidth into the millimeter range will support systems such as MLRS, Satellite Communications, and advanced combat identification systems. The new workstations will have a much smaller footprint and weigh significantly less than the existing equipment. Obtaining this smaller size and lighter weight is an essential first step in downsizing the calibration sets and will enhance on-site weapons systems support. The frequency counter which is part of the AN/GSM-286 and AN/GSM-287 Calibration Sets is 14 years old and will be replaced during FY97. A replacement counter with an extended range into the microwave frequencies is needed to support weapons systems such as Avenger, All Source Analysis System, MLRS, Paladin, and Kiowa Warrior. A replacement for the Calibration Sets instrument controller will also be procured in FY97. The present controllers are obsolete and are becoming increasingly difficult to support because spare parts are not available. The oscilloscope workstation augmentation to be procured in FY97 will increase the workstation bandwidth to 1 GHz and provide a capability to support the next generation of digitized oscilloscopes.</p>											
DD FORM 2454, JUL 88				ITEM NO: 96				PAGE NO OF		UNCLASSIFIED	
P-1 SHOPPING LIST										Page 1 of 15 Pages	
										EXHIBIT P-40	

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No. OPA 2/C-E Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME Calibration Sets Equipment		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION Various		D. DATE February 1995		
	IDENT CODE	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
Weapon System Cost Elements									
Hardware	A		12,374		8,020		9,202		9,295
Government Engineering/Support			2,160		2,100		2,100		2,100
Fielding New Equipment Training (NET)			148		155		155		155
Program Totals			14,682		10,275		11,457		11,550

Exhibit P-5 Weapon System Cost Analysis

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ITEM No 96

Page 2 of 15 Pages

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (B75269)						
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94											
Long Gage Block	Edmunds; Farmington, CT	C/FP	MICOM	Mar 94	Jan 95	18	14,061				
HP 5345 Freq Counter	Hewlett Packard; HSV, AL	SS/FP	MICOM	Nov 93	Dec 93	46	19,043				
Scalar Analyzer	Gigatronics; Sunnyvale, CA	MIPR	NAVY	Dec 93	Jul 94	64	22,875				
Auto Network Analyzer	Wiltron; Morgan Hill, CA	C/FP	MICOM	Jun 94	Oct 94	4	100,471				
RLC Workstation	Wayne Kerr; Woburn, MA	C/FP	MICOM	Jun 94	Mar 95	157	4,738				
Argo Calibrator	Argo Systems; Sunnyvale, CA	C/FP	MICOM	Jan 94	Jan 95	1	210,604				
Pulse Generator	Lecroy; Chestnut Ridge, NY	C/FP	MICOM	Apr 94	Jan 95	105	11,607				
Fiber Opt Source (FOCUS)	Nichols Research; HSV, AL	SS/FP	MICOM	Aug 94	Aug 95	56	38,423				
Source Co 60/CS 137	JL Sheppard; San Fernando, CA	C/FP	MICOM	Jun 94	Oct 94	1	216,590				
High Freq Generator	Rhode Schwary; Lanham, MD	MIPR	AF	May 94	Dec 94	102	8,790				
Fiber Optic Power Meter	Hewlett Packard; HSV, AL	C/FP	MICOM	May 94	Aug 94	39	6,975				
Multiple	Various	Various	Various	FY94	Various	Various	\$3,668,952				
D. REMARKS:											
The Calibration Sets acquisitions are numerous, therefore, only production acquisitions totalling more than \$200,000 are identified above.											
* The FY94 line items with individual acquisitions less than \$200,000 have combined costs of \$3.669 million.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE: February 1995			
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (BZ5269)							
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95										
Pulse Generator	Lecroy; Chestnut Ridge, NY	C/Option	MICON	Nov 94	Aug 95	71	10,873			
IFF Peak Pulser	TBS	C/FP	MICON	May 95	Feb 96	58	16,638	Yes		
DC/HV Calibrator	TBS	C/FP	MICON	May 95	Mar 96	82	8,000	Yes		
Pneumatic Pressure Std	TBS	C/FP	MICON	Jun 95	Jan 96	81	10,000	Yes		
High Accuracy DVM	Hewlett Packard; Dallas, TX	MIPR	AF	Feb 95	Dec 95	96	3,480			
High Freq Source	Wiltron; Morgan Hill, CA	MIPR	Marine Corp	Jan 95	Sep 95	57	17,509			
Bar Code Scanner	Intermec; Everett, WA	MIPR	PM TACHIS	Mar 95	Dec 95	75	4,453			
Repository ADPE	TBS	C/FP	MICON	Feb 95	Nov 95	1	381,000	Yes		
Multiple	Various	Various	Various	FY95	Various	Various	2,769,945			
D. REMARKS:										
The Calibration Sets acquisitions are numerous, therefore, only production acquisitions totalling more than \$200,000 are identified above.										
* The FY95 line items with individual acquisitions less than \$200,000 have combined costs of \$2.770 million.										

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (8Z5269)							
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY96											
Pneumatic Pressure Std	TBS	C/Option	MICOM	Jan 96	Sep 96	107	10,000				
High Freq Source	Wilttron; Morgan Hill, CA	MIPR	Marine Corp	Jan 96	Jun 96	57	17,509				
AC Current Standard	TBS	C/FP	MICOM	Feb 96	Jan 97	89	3,382	No			
IFTE I/O VXI Bus	TBS	C/FP	MICOM	Mar 96	Dec 96	36	10,000	No			
Voltage/Current Amp	TBS	C/FP	MICOM	Mar 96	Dec 96	166	9,036	No			
Auto Gage Block Comp	TBS	C/FP	MICOM	Mar 96	Dec 96	1	250,000	Yes			
Pressure Cal System	TBS	C/FP	MICOM	Mar 96	Dec 96	6	75,333	No			
Micrometer Calibrator	TBS	C/FP	MICOM	Feb 96	Dec 96	9	30,000	No			
Scope/Meter	TBS	C/FP	MICOM	Mar 96	Jul 96	175	2,000	No			
Repository ADPE	TBS	C/FP	MICOM	Mar 96	Aug 96	1	219,000	No			
Multiple	Various	Various	Various	FY96	Various	Various	\$3,432,015				
D. REMARKS:											
The Calibration Sets acquisitions are numerous, therefore, only production acquisitions totalling more than \$200,000 are identified above.											
* The FY96 line items with individual acquisitions less than \$200,000 have combined costs of \$3.432 million.											

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE: February 1995			
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (BZ5269)							
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97 Accessories Kit	TBS	C/FP	MICOM	Dec 96	Sep 97	187	2,000	No		
Sig Gen Workstation	TBS	C/FP	MICOM	Feb 97	Oct 97	100	50,000	No		
O'scope WS Augmentation	TBS	C/FP	MICOM	Feb 97	Oct 97	187	5,000	No		
Frequency Counter	TBS	C/FP	MICOM	Feb 97	Jul 97	87	15,000	No		
Instrument Controller	TBS	C/FP	MICOM	Mar 97	Oct 97	187	6,000	No		
Multiple	Various	Various	Various	FY97	Various	Various	559,000 *			
D. REMARKS:										
The Calibration Sets acquisitions are numerous, therefore, only production acquisitions totalling more than \$200,000 are identified above.										
* The FY97 line items with individual acquisitions less than \$200,000 have combined costs of \$0.559 million.										

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092										UNCLASSIFIED										DATE: February 1995									
P-1 ITEM NOMENCLATURE: Calibration Sets Equipment										P-1 ITEM NOMENCLATURE: Calibration Sets Equipment										(8Z5269)									
PRODUCTION SCHEDULE										PRODUCTION SCHEDULE										PRODUCTION SCHEDULE									
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment									
PROGRAM QUANTITY										PROGRAM QUANTITY										PROGRAM QUANTITY									
CY 94										CY 94										CY 94									
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CY 70</																													

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REPORTS CONTROL SYMBOL:
DD-COMP (AR) 1092

UNCLASSIFIED

DATE: February 1995

PRODUCTION SCHEDULE

APPROPRIATION/BUDGET ACTIVITY:

Other Procurement, Army 2

Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE:

Calibration Sets Equipment

(875269)

FAC NO	U E	S	PROGRAM QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	ACCEPT PRIOR TO 1 OCT 1994	BAL DUE AS OF 1 OCT 1994	FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97												L A T E R				
												CALENDAR YEAR 95												CALENDAR YEAR 96												CALENDAR YEAR 97																
												OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	ea	A	Pulse Generator								71											15	15	15	15	11																										
2	ea	A	IFF Peak Pulser								58																																									
3	ea	A	DC/HV Calibrator								82																																									
4	ea	A	Pneumatic Pressure Std								81																																									
5	ea	A	High Accuracy DVM								96																																									
TOTAL MONTHLY PRODUCTION												388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

FAC. NO.	MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME						TOTAL AFTER 1 OCT	REMARKS:	
		1-8-5		MAXIMUM		INITIAL	ADMIN LEAD TIME		MANUFAC-TURING TIME					
		MINIMUM	1-8-5				PRIOR 1 OCT	AFTER 1 OCT						
1	Lectroy		1	15	20									
2	TBS		3	10	20									
3	TBS		3	10	15									
4	TBS		1	10	15									
5	Hewlett Packard		3	10	15									

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P-1 SHOPPING LIST

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EXHIBIT P-21

[illegible]

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		UNCLASSIFIED												DATE: February 1995																																															
PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (B75269)																																																											
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97																																			
PROGRAM QUANTITY		CALENDAR YEAR 95												CALENDAR YEAR 96												CALENDAR YEAR 97																																			
FAC / R NO H V		CY 94												CY 95												CY 96												CY 97																							
S E		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																																			
FY 94 FY 95 FY 96 FY 97 FY 98 FY 99		OCT 1994												OCT 1994												OCT 1994												OCT 1994																							
ACCEPT PRIOR TO 1 OCT 1994		BAL DUE AS OF 1 OCT 1994												BAL DUE AS OF 1 OCT 1994												BAL DUE AS OF 1 OCT 1994												BAL DUE AS OF 1 OCT 1994																							
1	ea A	Pneumatic Pressure Std												107												107												107												107											
2	ea A	High Freq Source												57												57												57												57											
3	ea A	AC Current Standard												89												89												89												89											
4	ea A	IFTE I/Q VXI Bus												36												36												36												36											
5	ea A	Voltage/Current Amp												166												166												166												166											
TOTAL MONTHLY PRODUCTION		455												455												455												455																							
MANUFACTURER'S NAME AND LOCATION		1 TBS												2 Wiltron												3 TBS												4 TBS												5 TBS											
FAC. NO.		1												2												5												5												10											
PRODUCTION RATES		1-8-5												10												10												10												20											
MINIMUM		1												2												5												5												10											
MAXIMUM		15												15												15												15												25											
MONTHS TO REACH MAX AFTER D DAY		15												15												15												15												25											
PROCUREMENT LEAD TIME		ADMIN LEAD TIME												MANUFACTURING TIME												TOTAL AFTER 1 OCT																																			
INITIAL		FAC 1 * 0												FAC 2 * 0												FAC 3 7												FAC 4 6												FAC 5 6											
PRIORITY		1 OCT												1 OCT												1 OCT												1 OCT																							
AFTER		3												3												11												9																							
TOTAL		8												5												14												9																							
REMARKS:		* Reorder.												** Production schedule for Sep 96 on FY95/96 contracts totals 10, the 1-8-5 production rate.																																															

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EXHIBIT P-21

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092										UNCLASSIFIED										DATE: February 1995																																																	
PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (BZ5269)																																																											
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										FISCAL YEAR 95										FISCAL YEAR 96										FISCAL YEAR 97																																							
PROGRAM QUANTITY										CY 94										CALENDAR YEAR 95										CALENDAR YEAR 96										CALENDAR YEAR 97																													
S E U I FAC NO										BAL DUE ACCEPT PRIOR TO 1 OCT 1994										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																																							
FY 94 FY 95 FY 96 FY 97 FY 98 FY 99										AS OF 1 OCT 1994																																																											
Auto Gage Block Comp										1																																																											
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Pressure Cal System										6																																																											
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Micrometer Calibrator										9																																																											
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Scope/Meter										175																																																											
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Repository ADPE										1																																																											
10 ea A																																																																					
TOTAL MONTHLY PRODUCTION										192																																																											
FAC. NO.										MANUFACTURER'S NAME AND LOCATION										PRODUCTION RATES										MONTHS TO REACH MAX AFTER D DAY										REMARKS:																													
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P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092															UNCLASSIFIED															DATE: February 1995																																
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment															P-1 ITEM NOMENCLATURE: Calibration Sets Equipment (875269)																																															
PRODUCTION SCHEDULE															FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97																							
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PROGRAM QUANTITY															ACCEPT PRIOR TO 1 OCT 1994												BAL DUE AS OF 1 OCT 1994																																			
FY 94 FY 95 FY 96 FY 97 FY 98 FY 99																																																														
Accessories Kit																											187																																			
Sig Gen Workstation																											100																																			
O'scope MS Augmentation																											187																																			
Frequency Counter																											87																																			
Instrument Controller																											187																																			
TOTAL MONTHLY PRODUCTION															748																																															
MANUFACTURER'S NAME AND LOCATION															MINIMUM												MAXIMUM												MONTHS TO REACH MAX AFTER D DAY																							
1 TBS															10												20												30																							
2 TBS															10												20												30																							
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REMARKS:															ADMIN LEAD TIME												MANUFACTURING TIME												TOTAL AFTER 1 OCT																							
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REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET										DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE: Integrated Family of Test Equipment (IFTE) (KA4000)											
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01				
QUANTITY													
COST (IN MILLIONS)		57.8	62.3	26.4	20.1	15.7	16.1	68.4	68.4				
<p>DESCRIPTION:</p> <p>The Integrated Family of Test Equipment (IFTE) is the Army's program to provide automatic test equipment (ATE) which is configurable to support multiple weapons systems. It consists of the Base Shop Test Facility (BSTF), the Contact Test Set (CTS), and the Electro-Optics (EO) program. IFTE provides standard ATE capabilities at unit and direct support/general support (DS/GS) maintenance levels to fault isolate/repair line replaceable units and printed circuit boards.</p> <p>JUSTIFICATION:</p> <p>IFTE will eliminate the proliferation of system-unique ATE at unit and DS/GS levels, and thereby decrease logistics, personnel, and training requirements. Standard ATE capabilities will support requirements for the increasing amount of electronics-intensive equipment being fielded throughout the Army. Digital technology on the battlefield is increasing dramatically, appearing on virtually every major Army system. This trend will accelerate in the future as technology allows for fewer, yet more capable systems. IFTE provides the capability to meet the full range of known and anticipated dynamic digital test requirements and continuing analog test requirements.</p> <p>The FY96 funds will provide for procurement of ATE to support Avenger, All Source Analysis System (ASAS), Kiowa Warrior, Multiple Launch Rocket System (MLRS) (rocket launcher only), Paladin, Abrams, Apache Longbow, Ground Based Sensor (GBS), Joint Tactical Unmanned Aerial Vehicle (JT-UAV), Patriot, Explosive Ordnance Disposal, and Nuclear, Biological, and Chemical Reconnaissance System (FOX) (NBC-FOX).</p> <p>The FY97 funds will provide for procurement of ATE to support Abrams, Avenger, ASAS, Kiowa Warrior, Apache Longbow, MLRS, Paladin, GBS, JT-UAV, NBC-FOX, and All Terrain Lifter Articulated System.</p>													
DD FORM 2454, JUL 88		P-1 SHOPPING LIST					UNCLASSIFIED			Page 1 of 17 Pages EXHIBIT P-40			
ITEM NO: 97		PAGE NO OF											

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. OPA 2/C-E Equipment		B. WEAPON MODEL/SERIES/POPULAR NAME Int Fam of Test Eqmpt (IFTE)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE		
Weapon System Cost Elements		IDENT CODE	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
Hardware	BSIF	A	2,123,830	15 *	2,061,496	10	2,413,544	6	2,654,898	
	CTS	A	16,423	31,857		20,615		14,481		
	EO	B		715 *	16,003	1084	11,000	80	10,000	11,100
				11,742	608,000	17,347	615,000	880		
						6 *		9 *		
						3,648		5,535		
Government Furnished Equipment	BSIF			1,056		2,080		913		100
Accessories	CTS			1,785		1,113		100		500
Engineering Changes/Retrofit Kits	BSIF			409		2,200		479		1,146
	CTS			1,540		68				
Acceptance Testing	BSIF			35		193				350
Assembly/Shipment	CTS			392		506		50		
Calibration Fixtures	BSIF			100		687				702
ILS Products/Support	BSIF			776		280		200		
	EO							308		
Interim Contractor Support	BSIF			1,016		2,458				
Depot Support	BSIF			545		175		250		500
	CTS			600						109
Fielding	BSIF			126		250		200		275
	CTS			120		200		150		200
Production Engineering	BSIF			1,153		1,200		600		600
	EO			475		490		320		300
						249		398		
Software Engineering/Support	BSIF			1,760		1,700		1,005		1,005
	CTS			22		436		287		250
Configuration Management	BSIF			391		250		193		175
Quality Assurance	BSIF			164		190		100		100
Publications/Technical Data	BSIF			85		729				
Spares/Support Equipment	BSIF			868						
	CTS			818		703				
DSESTS-TOW	BSIF					4,500				
Program Totals				57,835		62,267		26,449		20,067

* P-1 quantity has not been updated
to reflect the latest projections.

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Exhibit P-5 Weapon System Cost Analysis

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UNCLASSIFIED										DATE: February 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		P-1 ITEM NOMENCLATURE: Base Shop Test Facility (BSTF) (K18400)									
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
QUANTITY											
		14	10	6	1	1	1	18	18		
COST (IN MILLIONS)		39.6	37.2	18.2	6.6	4.6	5.6	48.5	48.5		
<p>DESCRIPTION:</p> <p>The Base Shop Test Facility (BSTF) is the basic direct support/general support (DS/GS) component of the field version of the Integrated Family of Test Equipment (IFTE). It consists of a Base Shop Test Station in an S280 shelter mounted on a 5-ton truck, with another S280 shelter mounted on a second 5-ton truck for test program set storage. The BSTF is a modular system of automatic test equipment (ATE) which supports repair of line replaceable units (LRU) through printed circuit board screening and replacement. The capabilities of this reconfigurable ATE can be expanded with minimal development to meet new test requirements. The BSTF will be fielded to Missile Maintenance companies (both division and non-division), Direct Support Maintenance companies (Corps), and Aviation Intermediate Maintenance companies.</p> <p>JUSTIFICATION:</p> <p>The BSTF is general purpose ATE which will support multiple weapons systems. It replaces the HAWK High Frequency Console, the AN/MSM-105(V)1 Electronic Quality Assurance Test Equipment, the Land Combat Support System, and the Test Support System for the Kiowa Warrior. The BSTF supports the fix forward concept of maintenance and saves significant operations and maintenance funding by permitting owning commands to repair expensive LRUs without having to evacuate them to CONUS depots.</p> <p>The FY96 funds provide for procurement of BSTFs to support Avenger; All Source Analysis System; Multiple Launch Rocket System (rocket launcher only); Paladin; Kiowa Warrior; Nuclear, Biological, and Chemical Reconnaissance System (FOX); and Ground Based Sensor.</p> <p>The FY97 funds provide for procurement of a BSTF to provide ATE support for the weapons systems above at an additional site. The funds also provide for procurement of retrofit kits for a limited number of previously procured BSTFs to incorporate state-of-the-art technologies into the ATE systems and to expand capabilities of those systems to meet the changing test support requirements of the Army's weapons systems. Previously procured systems will be upgraded in lieu of pursuing a complete redesign of the system over the short to mid term because of funding reductions and uncertainties related to upward compatibility with fielded test program sets and those under development.</p>											

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE	
		OPA 2/C-E Equipment		Base Shop Test Facility		Northrup Grumman; Bethpage, NY		February 1995	
Weapon System Cost Elements	IDENT CODE	FY94		FY95		FY96		FY97	
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost
Hardware	A	2,123,830*	15 ** 31,857	2,061,496	10 20,615	2,413,544	6 14,481	2,654,898	1 2,655
Government Furnished Equipment			1,056		2,080		913		100
Engineering Changes/Retrofit Kits			409		2,200		479		1,146
Acceptance Testing			35		193				
Calibration Fixtures			100						
Interim Contractor Support			1,016		2,458				
Depot Support			545		175		250		500
Fielding			126		250		200		275
Production Engineering			1,153		1,200		600		600
Software Engineering/Support			1,760		1,700		1,005		1,005
Configuration Management			391		250		193		175
Quality Assurance			164		190		100		100
ILS Products/Support					687				
Publications/Technical Data			85		729				
Spares/Support Equipment			868						
DSESTS-TOW					4,500				
* 10 @ \$2,154,998; 5 @ \$2,061,496									
** P-1 quantity has not been updated.									
Program Totals			39,565		37,227		18,221		6,556

ITEM No. 97

UNCLASSIFIED

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE: Base Shop Test Facility (BSTF) (K18400)								
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	Northrup Grumman Bethpage, NY	SS/Option	MICOM	Jan 94	Oct 95	10	2,154,998				
FY94	Northrup Grumman Bethpage, NY	SS/Option	MICOM	Dec 94	Jul 96	5	2,061,496				
FY95	Northrup Grumman Bethpage, NY	SS/Option	MICOM	Dec 94	Oct 96	10	2,061,496				
FY96	Northrup Grumman Bethpage, NY	SS/FP	MICOM	Jan 96	Aug 97	6	2,413,544	Yes			
FY97	Northrup Grumman Bethpage, NY	SS/Option	MICOM	Jan 97	Jul 98	1	2,654,898				
D. REMARKS: The second buy for FY94 was financed with a Congressional increase to the Integrated Family of Test Equipment program for procurement of equipment for the Reserve Component. This procurement was combined with the FY95 buy, and the higher quantity purchased resulted in a lower unit price for the total buy. Unit prices for FY96 and FY97 are higher because of the smaller quantities to be procured.											

[illegible]

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE: Contact Test Set (CTS)		(K51600)			
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY	937	1084	80	1110	870	810	1750
COST (IN MILLIONS)	18.3	21.1	2.0	13.5	11.1	10.5	19.9
<p>DESCRIPTION:</p> <p>The Contact Test Set (CTS) is a ruggedized, man-portable automatic tester used at all levels of maintenance primarily to identify failed line replaceable units (LRU) by augmenting built-in test/built-in test equipment in weapons systems. It diagnoses and verifies, in an on-line environment, operational status of the system under test and identifies failed LRUs for subsequent testing at a higher maintenance level. The CTS uses a lightweight computer unit (LCU), controlling instruments on circuit cards, to accomplish system level fault diagnosis. The CTS is also the Army's primary platform for electronic technical manuals/interactive electronic technical manuals and for downloading mission-critical software into weapons systems. The CTS will be fielded to organizational and direct support maintenance units which deploy maintenance support teams with the supported systems. Within aviation, CTS will be fielded to contact teams which are a part of aviation unit maintenance and aviation intermediate maintenance.</p> <p>JUSTIFICATION:</p> <p>The CTS is general purpose automatic test equipment which will support multiple weapons systems and mission requirements. In support of the fix forward concept of maintenance, the CTS identifies failed LRUs on the weapon system, thereby allowing the unit maintenance support team to pull only the correct, failed LRUs. This saves both time and money when compared with the previous methods of diagnosis.</p> <p>The FY96 funds will procure a new version of the CTS in limited quantities for introduction into the aviation community.</p> <p>The FY97 funds will procure hardware in support of Abrams, Avenger, Apache Longbow, All Terrain Lifter Articulated System, Paladin, and the aviation systems.</p>							

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE	
		OPA 2/C-E Equipment		Contact Test Set (CTS)		SAIC; San Diego, CA		February 1995	
Weapon System Cost Elements	IDENT CODE	FY94		FY95		FY96		FY97	
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost
Hardware	A	16,423	715 * 11,742	16,003	1084 17,347	11,000	80 880	10,000	1110 11,100
Accessories			1,785		1,113		100		500
Engineering Changes/Retrofit Kits			1,540		68				
Assembly/Shipiment			392		506		50		350
ILS Products/Support			776		280		200		702
Depot Support			600						109
Fielding			120		200		150		200
Production Engineering			475		490		320		300
Software Engineering			22		436		287		250
Spares/Support Equipment			818		703				
Program Totals			18,270		21,143		1,987		13,511

* P-1 quantity has not been updated
to reflect the latest projection.

ITEM No: 97

UNCLASSIFIED

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										C. P-1 ITEM NOMENCLATURE: Contact Test Set (CTS) (K51600)	
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	SAIC San Diego, CA	C/Option	CECOM	Apr 94	Jul 94	542	16,423				
FY94	SAIC San Diego, CA	C/Option	CECOM	Aug 94	Dec 94	109	16,423				
FY94	SAIC San Diego, CA	C/Option	CECOM	Sep 94	Jan 95	64	16,423				
FY95	SAIC San Diego, CA	C/Option	CECOM	Apr 95	Jul 95	1084	16,003				
FY96	TBS	C/FP	MICOM	Jan 96	Jul 96	80	11,000	Yes			
FY97	TBS	C/Option	MICOM	Jan 97	Jul 97	1110	10,000				
D. REMARKS: Replacement system to be procured beginning in FY96 will be a nondevelopmental item, and the unit cost is expected to be lower due to technological changes in the computer industry. Quantity variations account for differences in the FY96 and FY97 unit costs.											

[illegible]

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE: Electro-Optic Equipment		(KA4100)			
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00
							FY01
COST (IN MILLIONS)		3.9	6.2				
<p>DESCRIPTION:</p> <p>The Integrated Family of Test Equipment (IFTE) Electro-Optics (EO) Program will provide state-of-the-art, technologically superior general purpose test equipment capable of performing fault isolation and failure diagnosis on the Army's major weapons systems. The added electro-optics test capability to the IFTE will support all Army EO technologies including forward looking infrared systems (thermal imaging devices), laser rangefinder/designator systems, television camera/display systems, direct view optics systems, and trackers.</p> <p>JUSTIFICATION:</p> <p>The EO test equipment included in this program will augment weapon system built-in test/built-in test equipment to reduce incidences of no evidence of failure in evacuated line replaceable units, replace technologically obsolete test equipment, and implement guidelines of the Army and Department of Defense standard automatic test equipment policy. It will be able to meet the on-system EO test requirements of all Army weapons systems.</p> <p>The FY96 funds will procure an EO test capability to be fielded at the direct support maintenance level to reduce the no evidence of failure rates experienced by Army weapons systems. Systems targeted include Abrams (fire control), Apache, Target Acquisition Designation Sight/Pilot Night Vision Sensor, and OH-58D Mast Mounted Sight.</p>							
DD FORM 2454, JUL 88		ITEM NO 97		P-1 SHOPPING LIST		UNCLASSIFIED	
		PAGE NO OF				Page 13 of 17 Pages	
						EXHIBIT P-40	

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE	
	OPA 2/C-E Equipment		Electro-Optic Equipment		Pentastar; Huntsville, AL		February 1995	
	FY94 Unit Cost	FY94 Qty Total Cost	FY95 Unit Cost	FY95 Qty Total Cost	FY96 Unit Cost	FY96 Qty Total Cost	FY97 Unit Cost	FY97 Qty Total Cost
Weapon System Cost Elements	B							
Low Rate Initial Production (LRIP)								
ILS Products/Support								
Production Engineering								
			</					

* P-1 quantities have not been updated
to reflect the latest projection.

UNCLASSIFIED

ITEMS #97

Exhibit P-5 Weapon System Cost Analysis

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UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE: Electro-Optic Equipment (KA4100)						
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY95	Pentastar Electronics, Inc. Huntsville, AL	C/Option	MICOM	May 95	Jul 96	6	608,000				
FY96	Pentastar Electronics, Inc. Huntsville, AL	C/Option	MICOM	Jan 96	Mar 97	9	615,000				
D. REMARKS:											

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092										UNCLASSIFIED										DATE: February 1995									
PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: Electro-Optic Equipment (KA4100)																			
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										P-1 ITEM NOMENCLATURE: Electro-Optic Equipment (KA4100)																			
FISCAL YEAR 95										FISCAL YEAR 96										FISCAL YEAR 97									
CALENDAR YEAR 95										CALENDAR YEAR 96										CALENDAR YEAR 97									
CY 94										CY 95										CY 96									
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP									
S E										S E										S E									
U E										U E										U E									
FAC / R										FAC / R										FAC / R									
NO H V										NO H V										NO H V									
PROGRAM QUANTITY										PROGRAM QUANTITY										PROGRAM QUANTITY									
FY 94 FY 95 FY 96 FY 97 FY 98 FY 99										FY 94 FY 95 FY 96 FY 97 FY 98 FY 99										FY 94 FY 95 FY 96 FY 97 FY 98 FY 99									
ACCEPT PRIOR TO 1 OCT 1994										ACCEPT PRIOR TO 1 OCT 1994										ACCEPT PRIOR TO 1 OCT 1994									
BAL DUE AS OF 1 OCT 1994										BAL DUE AS OF 1 OCT 1994										BAL DUE AS OF 1 OCT 1994									
1 ea B										6										3									
1 ea B										9										3									
TOTAL MONTHLY PRODUCTION										15										0									
MANUFACTURER'S NAME AND LOCATION										1 Pentastar										1 Pentastar									
PRODUCTION RATES										1-8-5										1-8-5									
MINIMUM										2										2									
MAXIMUM										30										30									
MONTHS TO REACH MAX AFTER D DAY										1										1									
ADMIN LEAD TIME										PRIORITY 1 OCT										PRIORITY 1 OCT									
PRIORITY 1 OCT										5										5									
AFTER 1 OCT										4										4									
MANUFACTURING TIME										14										14									
TOTAL AFTER 1 OCT										18										18									
INITIAL										1										1									
REORDER										1										1									
REMARKS:										Production is below the most efficient rate because this is low rate initial production.										Production is below the most efficient rate because this is low rate initial production.									

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092	UNCLASSIFIED		DATE: February 1995				
C O D E "B"	I T E M D E S C R I P T I O N						
P-1 ITEM NOMENCLATURE:	Electro-Optic Equipment (KA4100)						
CURRENT DEVELOPMENT AND TEST STATUS							
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 3d Quarter, FY95							
EQUIPMENT ITEM(S) TO BE REPLACED: Not applicable; this is a new capability.							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: The Contact Test Set-Electro-Optics Augmentation (CTS-EOA) is a general purpose on-system automatic tester. Initial capability will support on-system testing of the Avenger and the M1A1 Abrams Tank. There is currently no on-system general purpose automatic test equipment to support these systems.							
DEVELOPMENT CONTRACT INFORMATION PE 0604746A-DL10							
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
Pentastar Electronics, Inc.	Huntsville, AL		21.283	1.302	4.740	0	0
TOTAL RDTE&E FUNDING			21.283	1.302	4.740	0	0
REMARKS:							
The CTS-EOA acquisition is an engineering and manufacturing development (EMD) effort which was awarded to Pentastar Electronics Incorporated in Jan 92. The present schedule calls for the exercise of a low rate initial production option in 3d Quarter, FY95.							
DD FORM 2443, JUL 88		P-1 SHOPPING LIST		UNCLASSIFIED		Page 17 of 17 Pages EXHIBIT P-19	

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1995		
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE:		(BZ5270)				
		TMDE Modernization (TMOD)						
		FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY								
COST (IN MILLIONS)		15.3	11.1	9.5	8.6	8.7	8.7	12.9
DESCRIPTION:		<p>The objectives of the Army Test, Measurement, and Diagnostic Equipment (TMDE) Modernization (TMOD) program are to improve the materiel readiness of Army weapons systems, reduce TMDE proliferation and obsolescence, and reduce TMDE support costs. These objectives are accomplished by acquiring state-of-the-art test equipment to provide new measurement capabilities and by replacing the existing Army inventory of obsolete general purpose test equipment at the direct and general support levels. The TMOD program supports a wide variety of communications and electronics systems, and purchases test equipment that is essential to the continued support of the M1 Abrams tank; M2/3 Bradley Fighting Vehicle; Apache helicopter; Patriot; Tube-launched, Optically-tracked, Wire-guided (TOW) missile system; Tactical Fire Direction System (TACFIRE); Firefinder; Mobile Subscriber Equipment (MSE); Single-Channel Ground and Airborne Radio System (SINGARS); and other major weapons systems. The TMOD procurements are primarily nondevelopmental items (NDI) which have a significant impact on the readiness, mobilization, and training operations of Army, Army Reserve, and National Guard units.</p>						
JUSTIFICATION:		<p>The FY96 funding will provide for purchase of additional quantities of the AN/GTM-12 Telephone Cable Test Set which checks continuity, insulation resistance, and cross-talk and automates the current manual procedure for testing 26-pair, CX-4566/G cables associated with communications equipment; the AN/USN-4598 Frequency Counter which measures frequency to 2.3 GHz and is used in support of the Tactical Satellite Communications (SATCOM) Radio Set and Terminal, Regency Net Terminal, Infrared Jammer Countermeasures Set, and various Army radios/repeaters; and the Pitot Static Test Set which will be used in testing air data and pneumatic instruments on board Apache helicopters, special operations aircraft and other Army aviation systems. Initial acquisitions of this equipment occurred in FY94 and FY95, and the additional quantities are needed to meet validated fielding requirements.</p> <p>The FY97 funding will provide for the purchase of additional quantities of the Pitot Static Test Set; as well as for initial procurement of a Signal Generator which will replace and further consolidate signal generators procured in the early 1980's. This older equipment is approaching the end of its useful life and is expensive to maintain. Signal generators provide essential repair capability for both tactical and strategic communications systems, particularly those operated and maintained by the US Army Information Systems Command and the US Army Intelligence and Security Command. Other critical maintenance applications include missile and aircraft guidance and control electronics.</p>						

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE		
		OPA 2/C-E Equipment		TMDE Modernization (THOD)		Various		February 1995		
		IDENT CODE	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
Weapon System Cost Elements										
Hardware		A		11,352		8,278		7,580		6,438
Maintenance/Calibration Accessories				270		200		100		76
Publications/Technical Data				433		300				300
Government Engineering/Support				2,068		1,909		1,439		1,385
Interim Contractor Support						25		25		25
DBOF Surcharges				640						
Fielding										
Total Package Fielding				424		197		197		197
New Equipment Training				89		199		129		149
Program Totals				15,276		11,108		9,470		8,570

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

ITEM No. 98

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE: TMDE Modernization (TMOD) (BZ5270)								
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94											
AN/GTM-12	ABC Digital Electronics Hillsdale, NJ	C/Option	MICOM	Mar 94	Sep 95	480	5968				
TS-4358	EXFO Dallas, TX	C/Option	MICOM	Mar 94	Sep 95	565	3650				
TS-4281	TTC Systems Germantown, MD	C/Option	MICOM	Mar 94	Jul 94	130	9949				
ME-523	Wayne Kerr Hoburn, MA	C/FP	MICOM	Jun 94	Feb 96	364	5812 *				
AN/USM-459B	Hewlett Packard Santa Clara, CA	C/FP	MICOM	Jun 94	Feb 96	730	1264 *				
ME-523	Wayne Kerr Hoburn, MA	C/Option	MICOM	Jun 94	Sep 96	100	5474				
TS-4281	TTC Systems Germantown, MD	C/Option	MICOM	Jul 94	Oct 94	80	9949				
AN/URM-213	Bird Electronics Solon, OH	C/Option	MICOM	Aug 94	Nov 94	76	1324				
ME-563	A.W. Sperry Hauppauge, NY	SS/FP	MICOM	Sep 94	May 96	1000	650				
D. REMARKS:											
* Unit price reflects additional cost associated with the First Article units.											

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE: (BZ5270)						
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY95											
AN/GTN-12	ABC Digital Electronics Hillside, NJ	C/Option	MICOM	Dec 94	Sep 96	480	5968				
ME-523	Wayne Kerr Woburn, MA	C/Option	MICOM	Dec 94	Nov 96	230	5474				
AN/USM-459B	Hewlett Packard Santa Clara, CA	C/Option	MICOM	Dec 94	Sep 96	690	1184				
Pitot Static Test Set	Druck, Inc. New Fairfield, CT	SS/FP	MICOM	May 95	Dec 96	100	33373	Yes			
FY96											
AN/GTN-12	ABC Digital Electronics Hillside, NJ	C/Option	MICOM	Dec 95	Sep 97	485	5968				
AN/USM-459B	Hewlett Packard Santa Clara, CA	C/Option	MICOM	Dec 95	Apr 97	180	1184				
Pitot Static Test Set	Druck, Inc. New Fairfield, CT	SS/Option	MICOM	Jan 96	Feb 97	134	33373				
D. REMARKS:											

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE: February 1995			
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE: TMDE Modernization (TMOD) (BZ5270)							
Cost Element/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97										
Pitot Static Test Set	Druck, Inc. New Fairfield, CT	SS/Option	MICOM	Dec 96	May 97	130	33373			
Signal Generator	TBS	C/FP	MICOM	Dec 96	Aug 98	300	7000	No		
D. REMARKS:										

[illegible]

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092										UNCLASSIFIED										DATE: February 1995									
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 2 Communications and Electronics Equipment										P-1 ITEM NOMENCLATURE: TMDE Modernization (TH00)										(875270)									
FISCAL YEAR 95										FISCAL YEAR 96										FISCAL YEAR 97									
CALENDAR YEAR 95										CALENDAR YEAR 96										CALENDAR YEAR 97									
CY 94										CY 95										CY 96									
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP									
PROGRAM QUANTITY										ACCEPT PRIOR TO 1 OCT 1994										BAL DUE AS OF 1 OCT 1994									
FY 94 FY 95 FY 96 FY 97 FY 98 FY 99										FY 94 FY 95 FY 96 FY 97 FY 98 FY 99										FY 94 FY 95 FY 96 FY 97 FY 98 FY 99									
1 ea A										480										480									
2 ea A										230										230									
3 ea A										690										690									
4 ea A										100										100									
AN/GTM-12																													
ME-523																													
AM/USM-4598																													
Pltqt Static Test Set																													
TOTAL MONTHLY PRODUCTION										1500										1500									
FAC. NAME AND LOCATION										MINIMUM										MAXIMUM									
1 ABC Digital Elec										10										70									
2 Wayne Kerr										8										120									
3 Hewlett Packard										30										210									
4 Druck										15										110									
PRODUCTION RATES										1-8-5										1-8-5									
MANUFACTURER'S										INITIAL										TOTAL AFTER 1 OCT									
1										*FAC 1 0										23									
2										*FAC 2 0										25									
3										*FAC 3 0										23									
4										FAC 4 4										26									
PROCUREMENT LEAD TIME										ADMIN LEAD TIME										MANUFACTURING TIME									
1										PRIOR 1 OCT										21									
2										AFTER 1 OCT										23									
3										2										21									
4										7										19									
REMARKS:										* Reorders.										AN/GTM-12 production schedule for Sep 96 on FY94/95 contracts totals 40, the 1-8-5 production rate.									
										**										AN/USM-4598 production schedule for Sep 96 on FY94/95 contracts totals 100, the 1-8-5 production rate.									
										***										ME-523 production schedule for Nov 96 on FY94/95 contracts totals 50, the 1-8-5 production rate.									

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995	
Appropriation/Budget Activity : Other Procurement, Army Activity 2, Communications and Electronics Equipment		P-1 Item Nomenclature: Initial Spares - PEO CCS (BA9101)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (MILLIONS)	11.0	0	0	0	0	0	0	0
DESCRIPTION: Provides for procurement of spares to support initial fielding of new or modified end items.								
JUSTIFICATION: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:								
				FY 94	FY 95	FY 96	FY 97	
ASAS-MODULES (TIARA)				4.8	0.0	0.0	0.0	
FAAD C2				1.5	0.0	0.0	0.0	
ADV FIELD ARTILLERY TACT DATA SYS (AFATDS)				0.9	0.0	0.0	0.0	
FA C2 SYST PEO CCS				1.3	0.0	0.0	0.0	
OPTADS				<u>2.5</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	
TOTAL				11.0	0.0	0.0	0.0	

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995		
Appropriation/Budget Activity : Other Procurement, Army Activity 2, Communications and Electronics Equipment		P-1 Item Nomenclature: Initial Spares - PEO COMM (BA9102)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (MILLIONS)	28.0	0	0	0	0	0	0	0	
DESCRIPTION: Provides for procurement of spares to support initial fielding of new or modified end items.									
JUSTIFICATION: The funds in this account procure depot level reparable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:									
				FY 94	FY 95	FY 96	FY 97		
THTR TAC AREA COMMO SYS				4.6	0.0	0.0	0.0		
DEFENSE SATELLITE COMMUNICATIONS				8.9	0.0	0.0	0.0		
NAVSTAR GLOBAL POSITIONING SYSTEM				3.3	0.0	0.0	0.0		
ARMY DATA DISTRIBUTION SYSTEM (ADDS)				3.4	0.0	0.0	0.0		
LT SPEC DIV INTERIM SENSOR (LSDIS)				0.7	0.0	0.0	0.0		
TRI-TAC				4.0	0.0	0.0	0.0		
TCSATCOM PEO				3.1	0.0	0.0	0.0		
TOTAL				28.0	0.0	0.0	0.0		

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET					February 1995
Appropriation/Budget Activity : Other Procurement, Army Activity 2, Communications and Electronics Equipment		P-1 Item Nomenclature: Initial Spares - PEO IEW (BA9103)				
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99
QUANTITY						
COST (MILLIONS)	19.1	0	0	0	0	0
<p>DESCRIPTION: Provides for procurement of spares to support initial fielding of new or modified end items.</p> <p>JUSTIFICATION: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:</p>						
	FY 94	FY 95	FY 96	FY 97		
JOINT STARS (ARMY) (TIARA)	6.2	0.0	0.0	0.0		
NIGHT VISION DEVICES	5.6	0.0	0.0	0.0		
FIREFINDER	1.2	0.0	0.0	0.0		
SIGNAL WARFARE EQUIP	6.0	0.0	0.0	0.0		
PM EW/RSTA PEO IEW	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>		
TOTAL	19.1	0.0	0.0	0.0		

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995																					
Appropriation/Budget Activity : Other Procurement, Army Activity 2, Communications and Electronics Equipment		P-1 Item Nomenclature: Initial Spares - PEO STAMIS(BA9104)																										
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01																				
QUANTITY																												
COST (MILLIONS)	.7	0	0	0	0	0	0	0																				
<p>DESCRIPTION: Provides for procurement of spares to support initial fielding of new or modified end items.</p> <p>JUSTIFICATION: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:</p> <table border="0"> <thead> <tr> <th></th> <th>FY 94</th> <th>FY 95</th> <th>FY 96</th> <th>FY 97</th> </tr> </thead> <tbody> <tr> <td>CORPS/THEATER ADP SVC CTR (CTASC)</td> <td>0.6</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>STAMIS TACTICAL COMPUTERS</td> <td><u>0.1</u></td> <td><u>0.0</u></td> <td><u>0.0</u></td> <td><u>0.0</u></td> </tr> <tr> <td>TOTAL</td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> </tr> </tbody> </table>										FY 94	FY 95	FY 96	FY 97	CORPS/THEATER ADP SVC CTR (CTASC)	0.6	0.0	0.0	0.0	STAMIS TACTICAL COMPUTERS	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	TOTAL	0.7	0.0	0.0	0.0
	FY 94	FY 95	FY 96	FY 97																								
CORPS/THEATER ADP SVC CTR (CTASC)	0.6	0.0	0.0	0.0																								
STAMIS TACTICAL COMPUTERS	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>																								
TOTAL	0.7	0.0	0.0	0.0																								

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995	
Appropriation/Budget Activity : Other Procurement, Army Activity 2, Communications and Electronics Equipment		P-1 Item Nomenclature: Initial Spares - NON PEO (BA9106)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (MILLIONS)	13.6	0	0	0	0	0	0	0
DESCRIPTION: Provides for procurement of spares to support Initial fielding of new or modified end items.								
JUSTIFICATION: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:								
		FY 94	FY 95	FY 96	FY 97			
INTEGRATED FAMILY OF TEST EQUIP		6.1	0.0	0.0	0.0	0.0		
TACCIMS		0.1	0.0	0.0	0.0	0.0		
ARTILLERY ACCURACY EQUIPMENT		0.5	0.0	0.0	0.0	0.0		
TERRESTRIAL TRANSMISSION EUR		0.1	0.0	0.0	0.0	0.0		
TERRESTRIAL TRANSMISSION PAC		0.1	0.0	0.0	0.0	0.0		
WW TECH CON IMP PROG (WWTCIP)		0.1	0.0	0.0	0.0	0.0		
TMDE MODERNIZATION (TMOD)		0.3	0.0	0.0	0.0	0.0		
C-E CONTINGENCY/FIELDING EQUIP		2.8	0.0	0.0	0.0	0.0		
LOCAL AREA NETWORK (LAN)		0.2	0.0	0.0	0.0	0.0		
ARMY WIDE IS SPT-MCM		0.1	0.0	0.0	0.0	0.0		
STRATEGIC C2 FACILITIES		0.3	0.0	0.0	0.0	0.0		
DEFENSE DATA NETWORK (DDN)		0.2	0.0	0.0	0.0	0.0		
MACOM TELE-MOD		1.7	0.0	0.0	0.0	0.0		

F REPORTS CONTROL SYMBOL

DD-COMP/ARI 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE

February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

P-1 ITEM NOMENCLATURE

INSTALLATION C4 UPGRADE (ICU) (BB1000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (in Millions)	5.2	2.3	1.8	1.2	0.0	0.0	0.0	0.0

DESCRIPTION: This budget line supports Information Mission Area (IMA) acquisitions necessary to implement and support Base Realignment and Closure (BRAC) actions and the National Capital Region (NCR) realignment effort. These actions have resulted in significant impacts to the Army's information systems infrastructure at affected locations, necessitating upgrades in IMA capacity/services to accommodate shifts in population supported and concentrations of organizations at gaining BRAC sites. Funding has been programmed to assure IMA upgrades coincide with BRAC schedules.

JUSTIFICATION: Fort Belvoir is undergoing a major realignment and growth as a result of BRAC and the development of the Engineer Proving Ground (EPG) under the National Capital Region (NCR) realignment effort. In addition to BRAC construction on main post, three million square feet of administrative space is being planned for construction at the EPG to house Army activities that currently occupy leased office space in the NCR. It is anticipated that the population of Fort Belvoir will grow to approximately 30 thousand. The first NCR tenants began moving to Fort Belvoir in December 1993. As the population more than doubles, the existing base operations systems and equipment for Fort Belvoir and the EPG must be upgraded to accommodate the additional workload.

FY 96 and FY 97 funding will provide E-mail system upgrades which will allow users to access installation/organization E-mail services and provide onward distribution for automatic digital network (AUTODIN) message traffic. The E-mail system will provide a standard GOSIP compliant x.400 and x.500 E-mail environment which can be readily migrated into the Defense Message System (DMS). E-mail system implementation will begin in FY 96, providing initial infrastructure for mail hosts, software, and training, while FY 97 funds will be used for fielding of additional Ft. Belvoir customers. FY 97 funds will be used to replace existing proprietary computers in the post Data Processing Installation (DPI) in building 193 with Open System Environment (OSE) computers. The implementation of OSE systems will allow migration of legacy applications from the proprietary system to open system applications. The Multiuser System will also support tenant user requirements for desktop publishing, records management, forms management, and graphic systems utilizing the Ft. Belvoir Installation Transport Network (ITN). BRAC realignments of this nature are expected to generate significant long-term savings in operation costs associated with the Army's support structure. In so doing, more of the increasingly scarce OMA resources can be directed toward warfighting, vice infrastructure, requirements. More specifically, these funds will enable Fort Belvoir tenants and organizations to rapidly mobilize for war, and enable Fort Belvoir to function as a power projection base for warfighting forces.

(ID CODE A)

DD Form 2454

P-1 Shopping List
Item No. 105Page No.
1 of 4

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/TITLE NO. OPA 2 - Communications and Electronics Equipment			B. WEAPON MODEL/SERIES/POPULAR NAME INSTALLATION C4 UPGRADE (ICU) (BB1000)			C. MANUF. Numerous See 5a.		D. DATE February 1995	
WEAPON SYSTEM COST ELEMENTS		FY 84		FY 85		FY 86		FY 87			
		IDENT CODE	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Fort Belvoir:											
Installation Transport Network		A	2,914	1	2,914						
Premise Distribution		A	VAR	VAR	867	VAR	VAR	1,933			
Non-Tac Radio System Subscriber Equip		A	VAR	VAR	18						
Engineering		A	VAR	VAR	120	VAR	VAR	80			
Voice Messaging System		A	82	1	82						
Message System		A				245	1	245			
E-Mail System Upgrades		A							VAR	VAR	1,018
Multiuser System		A							VAR	VAR	138
Ft. Carson Information Systems Facility (ISF) Upgrade		A	1,200	1	1,200						
TOTAL					5,201			2,258			1,158

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)										A. DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 2 - Communications and Electronics Equipment			C. P-1 ITEM NOMENCLATURE INSTALLATION C4 UPGRADE (ICU) (BB1000)								
LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL	
Fort Belvoir: Installation Transport Network FY 94	HARRIS CORP	C/FP/OPTION	DSS-W	JAN 94	FEB 94	1	2,914				
Premise Distribution FY 94 FY 95	HARRIS CORP HARRIS CORP	C/FP/OPTION C/FP/OPTION	DSS-W DSS-W	FEB 94 FEB 95	MAY 94 MAY 95	VAR*# VAR*#	VAR*# VAR*#	YES	NO		
Non-Tac Subscriber Equip FY 94	MOTOROLA	SS/FP	FT. BELVOIR	APR 94	MAY 94	VAR#	VAR#				
Engineering FY 94 FY 95	SAIC SAIC	C/FP/OPTION C/FP/OPTION	ISEC-CONUS ISEC-CONUS	DEC 93 DEC 94	FEB 94 FEB 95	VAR# VAR#	VAR# VAR#				
Voice Messaging System FY 94	HARRIS CORP	C/FP	DSS-W	APR 94	AUG 94	1	82				
Message System FY 95	HARRIS CORP	C/FP/OPTION	DSS-W	MAR 95	MAY 95	1	245	YES	NO		
E-Mail System Upgrades FY 96 FY 97	HARRIS CORP HARRIS CORP	C/FP/OPTION C/FP/OPTION	DSS-W DSS-W	NOV 95 NOV 96	JAN 96 JAN 97	VAR* VAR*	VAR* VAR*	YES YES	NO NO		

D. Remarks:

DSS-W = Defense Supply Service - Washington
 ISEC = Information Systems Engineering Command
 SAIC = Science Applications International Corp, Sierra Vista, AZ
 HARRIS CORP, Melbourne, FL
 MOTOROLA, Hanover, MD
 PRC = Planning Research Corp, Reston, VA
 * Supports multiple buildings
 # Site specific causing various quantities and costs.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

A. DATE February 1995

B. APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army 2 - Communications and Electronics Equipment

C. P-1 ITEM NOMENCLATURE

INSTALLATION C4 UPGRADE (ICU) (BB1000)

LINE ITEM / FISCAL YEAR	CONTRACTOR	CONTRACT METHOD	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
Multiuser System FY 97	TBS	C/FI/OPTION	USAISC	JAN 97	APR 97	1	138	YES	NO	
Ft. Carson Information Systems Facility (ISF) Upgrade FY 94	CORPS OF ENGINEERS	MIPR	USAISC	JUN 94	VAR #	VAR #	VAR #			

D. Remarks:

USAISC = US Army Information Systems Command

Many small IMA purchases through many vendors.

UNCLASSIFIED										DATE FEBRUARY 1995																												
BUDGET ITEM JUSTIFICATION SHEET																																						
P-1 ITEM NOMENCLATURE																																						
Production Base Support, (C - E)																																						
(BF5400)																																						
<table border="1"> <tr> <td></td> <td>FY94</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> <td>FY98</td> <td>FY99</td> <td>FY00</td> <td>FY01</td> </tr> <tr> <td>QUANTITY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>COST (IN MILLIONS)</td> <td>1.8</td> <td>12.8</td> <td>0.7</td> <td>0.7</td> <td>0.4</td> <td>0.4</td> <td>0.4</td> <td>0.4</td> </tr> </table>													FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	QUANTITY									COST (IN MILLIONS)	1.8	12.8	0.7	0.7	0.4	0.4	0.4	0.4
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01																														
QUANTITY																																						
COST (IN MILLIONS)	1.8	12.8	0.7	0.7	0.4	0.4	0.4	0.4																														
<p>DESCRIPTION: Provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic materiel. Also provides capability to surge production of Communications & Electronics items such as night vision equipment. It also provides a working environment with improved health and safety factors by consolidating industrial operations.</p> <p>JUSTIFICATION: FY96 and FY97 funding is required for replacement of equipment and instrumentation used in production testing at Electronic Proving Ground (EPG) and for contractor facilities involved in production of common modules which are used in night vision devices.</p> <p>A summary project listing is attached.</p>																																						
<table border="1"> <tr> <td>DD Form 2464, Jul 88</td> <td colspan="2">P-1 SHOPPING LIST</td> <td>UNCLASSIFIED</td> <td>Page 1 of 2 Pages</td> </tr> <tr> <td>ITEM NO 106</td> <td colspan="2">PAGE NO 1 OF 2</td> <td colspan="2">EXHIBIT P-40</td> </tr> </table>												DD Form 2464, Jul 88	P-1 SHOPPING LIST		UNCLASSIFIED	Page 1 of 2 Pages	ITEM NO 106	PAGE NO 1 OF 2		EXHIBIT P-40																		
DD Form 2464, Jul 88	P-1 SHOPPING LIST		UNCLASSIFIED	Page 1 of 2 Pages																																		
ITEM NO 106	PAGE NO 1 OF 2		EXHIBIT P-40																																			

SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES PROJECTS

(Provision of Industrial Facilities)

APPROPRIATION: AIRCRAFT PROCUREMENT ARMY

TITLE: INDUSTRIAL FACILITIES

DATE: FEBRUARY 1995

PROJECT NO. NUMBER	TYPE	NAME/LOCATION	FY94 (DOLLARS IN MILLIONS)	FY95	FY96	FY97
19X8173	Annual support for Stratford Army Engine Plant		0.971	1.104	0.000	0.000
	Funds provide for emergency equipment & real property repairs.					
19X8181	PSR, Bell Helicopter Textron Industrial Plant				0.717	0.240
	Funds provide for rebuilds, upgrades and equipment rehabilitation of government owned equipment.					
19X8189	PSR, General Electric Blisk Facilities				0.518	0.568
	Funds provide for rebuilds, upgrades and equipment rehabilitation of government equipment used in production of T700 engines. Equipment must be maintained to meet Black Hawk & Apache engine production schedules.					
09X5072	PSR - Ft. Rucker Test Facilities		0.749	0.839	0.707	0.511
	Funds provide rehabilitation, replacement of equipment and instrumentation used in production testing of aviation systems. Equipment is used in acceptance testing of the Apache, Army Helicopter Improvement Program (AHIP), and Black Hawk Aircraft and associated equipment.					
19X0016	Value Engineering, Program Support		0.379	0.649	0.650	0.630
19X0017	Value Engineering Training		0.150	0.200	0.180	0.170
69X0025	Value Engineering Support		0.150	0.052	0.054	0.048
PRODUCTION BASE SUPPORT TOTAL			2.399	2.844	2.826	2.167